you can hear it

www.takstar.com

TAKSTAR

2014 Catalogue TAKSTAR®

TAKSTAR®

**Guangdong Takstar Electronic Co., Ltd.**
Add: Longqiao Road, Longxi Boluo Huizhou Guangdong China 516121
Tel: +86 752 6383644 Fax: +86 752 6383952
Web: www.takstar.com E–mail: sales@takstar.com



2014 Catalogue

# Company Introduction

Established in 1995, Takstar is a leading producer in electro–acoustic industry, commencing as a microphone manufacturer, its product range has grown up to become diversified, which comprises professional microphone, headphone, voice amplifier and integrated application products.

With a large production building area up to 45000 $m^2$, 1000 employees, complete processing workshops and advanced equipments, Takstar is acknowledged as one of the largest electro–acoustic production bases in the world and a comprehensive corporation consolidating research and development, manufacture, sales and after–service.

Takstar Mission – To offer quality sound experience and provide creative applied sound solutions for world–wide users.

Our Culture – Innovative, Efficient, Respectful, Responsible

# Workshop Facilities


Production Line


SMT Workshop


Capsule Dust–Free Workshop


CNC Horizontal Injection Molding Machine


Plug Molding Machine


CNC Horizontal Die–Casting Machine


Laser Marking Machine


High–Accuracy CNC Lathe


Wave Solder Machine


Pad Printer


Full Automatic Ultrasonic Cleaning Line


Dust–Free Automatic Spray–painting Flow Line

# Testing Equipments

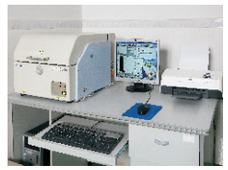

B & K Analyzer

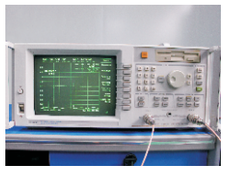

Anechoic Chamber


Electroacoustic Instrument


Frequency Response Inspection


High SPL & Self Noise Equipment


X–Ray Fluorescence Tester


Network Analyzer


Temperature & Humidity Testing Machine


Salt Spray Testing Equipment


Vibration Testing Equipment


Tensile Testing Equipment


Drop Testing Equipment

CONTENTS

# Recording Microphone ▸


• Side–address Microphone

## CM–450–L

### Features

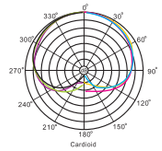
- Selected vacuum tube and ultra thin large gold–plated diaphragms ensuring naturally warm sound reproduction
- A choice of nine directivity characteristics makes it perfect for broad range of stringent recording applications
- Blue LED power indicator
- Optional bass filter to eliminate unwanted low frequency noise
- Optional 10dB attenuation for extreme high SPL environments
- Optional "Ground Lift" function to eliminate noise from mains
- Convenient control of all functions at the power supply unit

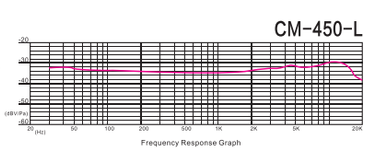
### Application

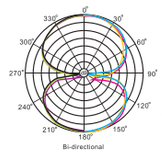
- Recording, broadcasting, on–stage performance, chorus

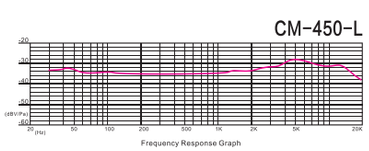
### Specification

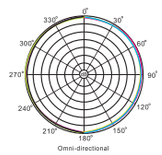
- Transducer Principle: Dual, True Condenser
- Diaphragm: Large, ultra thin, gold–plated diaphragm
- Directivity Characteristic: 9 types–Omni / Cardioid / Bi etc
- Frequency Response: 30Hz–20kHz
- Sensitivity: –35dB ± 2dB (0dB=1V/Pa at 1kHZ)
- Output Impedance: ≤200Ω
- Load Impedance: ≥1000Ω
- Equivalent Noise Level: 18dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD≤1.0% at 1kHz)
- Power Requirement: PM–3 Phantom Power Supply
- Body Dimension: Φ55×201mm
- Net Weight: 660g

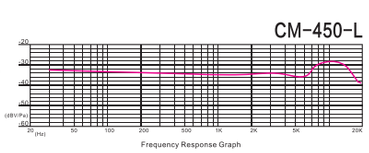




## CM–400–L

### Features

- Selected vacuum tube and ultra thin large gold–plated diaphragms ensuring naturally warm sound reproduction
- Cardioid directivity characteristic for ideal sound capturing
- Blue LED power indicator
- Wide and smooth frequency response

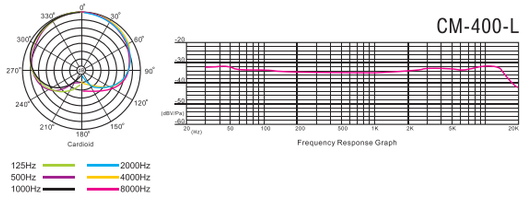
### Application

- Recording, broadcasting

### Specification

- Transducer Principle: True Condenser
- Diaphragm: Large, ultra thin, gold–plated diaphragm
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –35dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: ≤200Ω
- Load Impedance: ≥1000Ω
- Equivalent Noise Level: 18dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD≤1.0% at 1kHz)
- Power Requirement: PM–2 Phantom Power Supply
- Body Dimension: Φ55 × 201mm
- Net Weight: 655g






## SM–1B

### Features

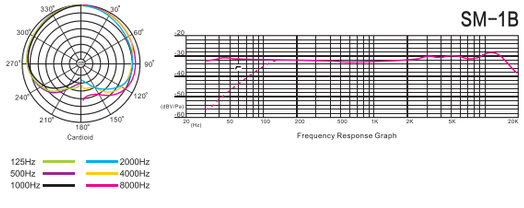
- Large,ultra–thin diaphragm for accurate sound reproduction
- Cardioid directivity characteristic for ideal sound capturing
- High sensitivity and low self noise
- Optional bass filter to eliminate unwanted low frequency noise
- Optional 10dB attenuation for extreme high SPL environments
- Wide and smooth frequency response range

### Application

- Recording, broadcasting, on–stage performance, chorus

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –35dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 20%
- Load Impedance: ≥1000Ω
- Equivalent Noise Level: ≤17dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD≤1.0% at 1kHz)
  140dB (with 10dB pad)
- Bass Filter: 10dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ54 × 188mm
- Net Weight: 540g






## SM–1C

### Features

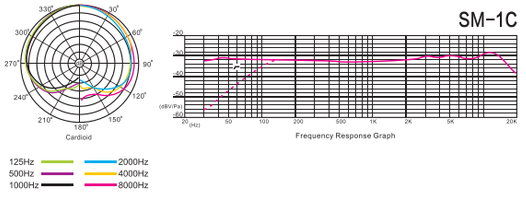
- Dual large,gold–plated diaphragms for accurate sound reproduction
- A choice of three directivity characteristics makes it perfect for broad range of demanding recording applications
- High sensitivity and low self noise
- Optional bass filter to eliminate unwanted low frequency noise
- Optional 10dB attenuation for extreme high SPL environments
- Wide and smooth frequency response range

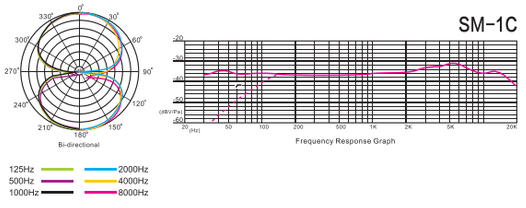
### Application

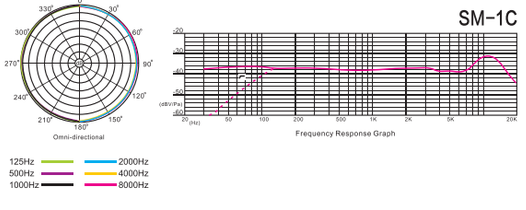
- Recording, broadcasting, on–stage performance, chorus

### Specification

- Transducer Principle: Dual, True Condenser
- Directivity Characteristic: Cardioid / Bi / Omni
- Frequency Response: 20Hz–20kHz
- Sensitivity: –33/–36/–38dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 20Ω ± 20%
- Load Impedance: ≥1000Ω
- Equivalent Noise Level: ≤20dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD≤1.0% at 1kHz)
  140dB (with 10dB pad)
- Bass Filter: 10dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ54 × 188mm
- Net Weight: 540g

## SM–7B

### Features

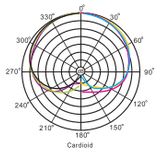
- Transformerless circuitry and large gold–plated diaphragm for accurate sound reproduction
- Cardioid directivity characteristic for ideal sound capturing
- High sensitivity and low self–noise
- Suitable for high SPL environments
- Low output impedance for long distance connection and high EMI resistance
- Wide and smooth frequency response range

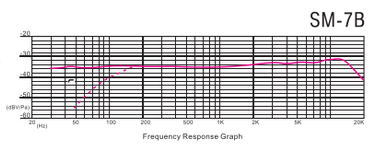
### Application

- Recording, broadcasting, on–stage performance

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –37dB ± 2dB (0dB=1V/Pa at 1kHZ)
- Output Impedance: 100Ω ± 30%( at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽20dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD⩽1.0% at 1kHz)
- Bass Filter: 10dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ53 × 148mm
- Net Weight: 538g


## GL–200

### Features

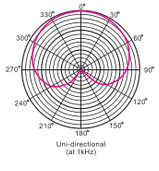
- Φ34 large gold–plated diaphragm provides accurate sound reproduction
- Excellent audio processing circuitry guarantees high fidelity and low distortion
- Optional 10dB and 20dB amplifying
- Built–in pop filter minimizes plosives and wind noise
- Stylish outlook and durable metal construction

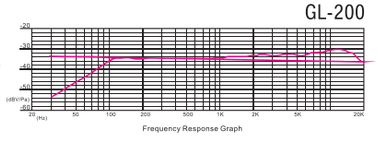
### Application

- Recording, broadcasting, on–stage performance

### Specification

- Transducer Principle: Condenser
- Frequency Response: 30Hz–20kHz
- Sensitivity: –36dB ± 3dB
- Directivity Characteristic: Cardioid
- Bass Filter: 10dB/octave at 110Hz
- Amplifying Function: +10dB
  +20dB
- Equivalent Noise Level: ⩽12dB
- Max. Input SPL: ⩾130dB (At 1kHz 0dB, THD1%)
- Output Impedance: 50Ω ± 30%
- Operating Voltage: 48V DC Phantom Power






## GL–400

### Features

- Φ34mm dual large gold–plated diaphragm provides warm and gentle sound reproduction.
- Three directivity characteristics (Cardioid/Bi/Omni) for different applications.
- Built–in transistor noise reduction circuit, low noise, stable performance, high SPL.
- Switchable low–frequency roll–off and –10dB attenuation
- Wide frequency response, low distortion, wide dynamic range
- Low output impedance

### Application

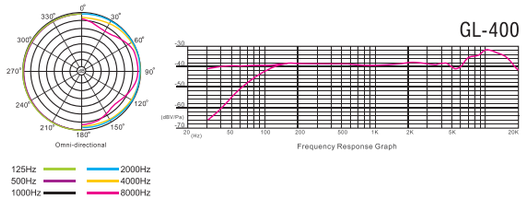
- Recording, broadcasting, on–stage performance, chorus

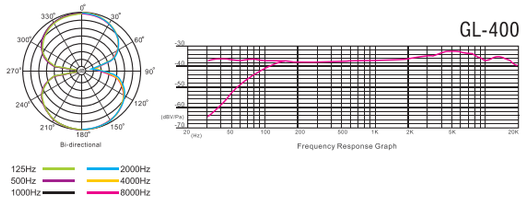
### Specification

- Transducer Principle: Dual, True Condenser
- Diaphragm: Φ34mm Gold–plating
- Directivity: Cardioid, Bi, Omni
- Frequency Response: 20Hz–20KHz
- Sensitivity: –33/–39/–38dB ± 3dB (0dB=1V/Pa at 1KHz)
- Equivalent Noise Level: ⩽12dB A
- Max. Input SPL: 130dB (THD⩽1.5% at 1KHz)
- Sensitivity Attenuation: –10dB ± 2dB
- Bass Filter: 10dB/octave at 80Hz
- Output Impedance: 58Ω ± 20%
- Power Requirement: 48V DC Phantom Power







## SM–5B

### Features

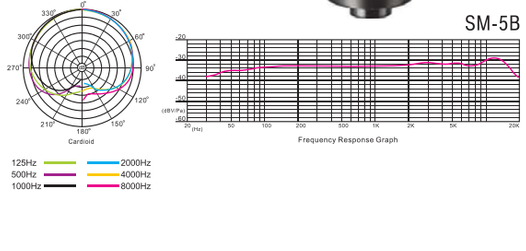
- Transformerless circuitry and large gold–plated diaphragm for accurate sound reproduction
- Cardioid directivity characteristic for ideal sound capturing
- Best performance at an affordable price
- Suitable for high SPL environments
- Low output impedance for long distance connection and high EMI resistance
- Wide and smooth frequency response range

### Application

- Recording, broadcasting, on–stage performance

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –33dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽20dB A (IEC 581–5)
- Max. Input SPL: 130dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ54 x 188mm
- Net Weight: 538g


## SM–8B

### Features

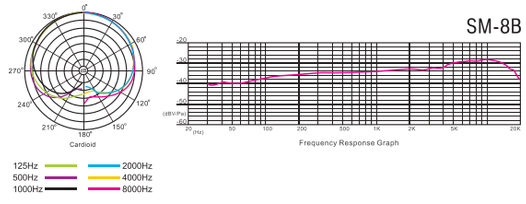
- Top quality back electret condenser transducer
- High sensitivity and low self noise
- Built–in pre–amplifier circuitry for unrivaled sound performance
- Wide frequency response range
- LED power indicator

### Application

- Recording, broadcasting, live performance

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–20kHz
- Sensitivity: –38dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽22dB A (IEC 581–5)
- Max. Input SPL: 140dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ54 x 128mm
- Net Weight: 371g






## GL–100

### Features

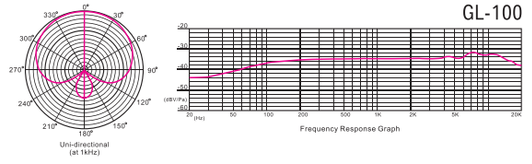
- High sensitivity and low self noise
- Suitable for high SPL environments
- Top quality back electret condenser transducer
- Wide and smooth frequency response range for best vocal and instrument pickup
- Excellent audio processing circuitry

### Application

- Recording, broadcasting, on–stage performance

### Specification

- Transducer Principle: Condenser
- Frequency Response: 20Hz–20kHz
- Sensitivity: –35dB ± 3dB
- Directivity Characteristic: Hyper–cardioid
- Equivalent Noise Level: 24dB (IEC 581–5)
- Max. Input SPL: 140dB (at 1kHz THD⩽1%)
- Output impedance: ⩽100Ω
- Load Impedance: ⩾1000Ω
- Operating Voltage: 48V Phantom Power
- Net Weight: 450g


## SM–16

### Features

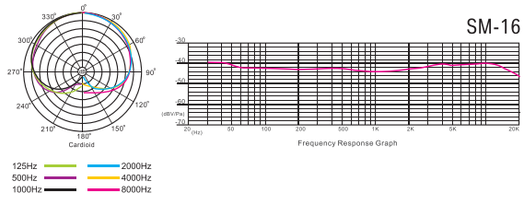
- Excellent audio processing circuitry
- Gold–plated diaphragm for accurate sound reproduction
- High sensitivity and low self noise
- Suitable for high SPL environments
- Smooth frequency response range for best vocal and instrument pickup
- Outstanding high–frequency detail and excellent sonic resolution

### Application

- Recording, broadcasting, on–stage performance

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–20kHz
- Sensitivity: –34dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 400Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: 18dB A (IEC 581–5)
- Max. Input SPL: 135dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ45 x 150mm
- Net Weight: 350g

## SM–17

### Features

- Precise large gold–plated diaphragm capsule features wide frequency response, clear and natural sound quality
- Advanced circuit design, extreme low noise, high SPL and wide dynamic range meet the demand of various recording occasions
- Fashionable outlook design, rugged and durable zinc alloy housing
- Customized windscreen effectively eliminates the "POP" sound during vocal recording
- Provided with portable bag for convenient carrying and storage

### Application

- Professional studio recording, broadcasting, PC recording, on–stage performance, instrument recording

### Specification

- Element: Large gold–plated diaphragm capsule
- Polar Pattern: Cardioid
- Frequency Response: 30Hz–20KHz
- Sensitivity: –32dB ± 3dB (0dB=1V/Pa at 1KHz)
- Equivalent Noise Level: ⩽11dB A
- Max. Input SPL: 145dB (THD ⩽1.0% at 1kHz)
- Output Impedance: ⩽200Ω
- Power Requirement: 12–52V Phantom Power


## PC–K800

### Features

- Precise large gold–plated diaphragm capsule features wide frequency response, clear and natural sound quality
- Extreme low noise, high SPL and wide dynamic range meet the demand of various recording occasions
- Low cut function effectively eliminates the proximity effect and reduces the ambient low frequency noise
- –10dB attenuation function for high SPL up to 155dB and maintain the pure sound quality
- Fashionable outlook design, rugged and durable zinc alloy housing
- Customized windscreen effectively eliminates the "POP" sound during vocal recording
- Provided with portable bag for convenient carrying and storage

### Application

- Professional studio recording, broadcasting, PC recording, on–stage performance, instrument recording

### Specification

- Element: Large gold–plated diaphragm capsule
- Polar Pattern: Cardioid
- Frequency Response: 30Hz–20KHz
- Sensitivity: –46dB ± 3dB (0dB=1V/Pa at 1KHz)
- Equivalent Noise Level: ⩽11dB A
- Max. Input SPL: 145dB (THD ⩽1.0% at 1kHz), 155dB (with 10dB attenuation)
- Low Cut: 10dB/octave at 100Hz
- Output Impedance: ⩽200Ω
- Power Requirement: 12–52V Phantom Power






## PC–K700

### Features

- Stylish outlook design, 3 optional colors, perfect combination of profession and fashion
- Special pop screen effectively eliminate the "POP" sound during vocal recording
- Gold–plated diaphragm capsule, excellent frequency response, specially design for personal recording
- High sensitivity pick–up characteristic satisfies computer recording requirement
- Professional audio processing circuit design features low noise, high SPL and wide dynamic range
- Provided with portable handbag for convenient storage, protection and carrying

### Application

- Internet karaoke, personal recording, studio recording, audio processing

### Specification

- Transducer Principle: Back Electret Condenser
- Polar Pattern: Cardioid ⩽–14dB (0–135°)
- Frequency Response: 30Hz–20KHz
- Sensitivity: –30dB ± 3dB (0dB=1V/Pa at 1KHz)
- Output Impedance: ⩽200Ω
- Power Requirement: 12–52V Phantom Power


## PC–K550

### Features

- Φ34mm large gold–plated diaphragms provides clear, exquisite and mellow sound reproduction
- The new excellent audio circuit guarantees high fidelity to achieve the best
- Built–in low noise electronic components for low noise performance
- High sensitivity, wide frequency response range
- Fashion outlook design, rugged and durable metal housing
- Full range of accessories for convenient use

### Application

- Internet karaoke, PC recording, audio processing, chat room, broadcasting

### Specification

**Microphone Specification**

- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –32 ± 3dB
- Output Impedance: ⩽100Ω
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽20dB(IEC 581–5)
- Max. Input SPL: 130dB (at 1kHz THD⩽1%)
- Output Connector: XLRM
- Power Requirement: 48V DC phantom power
- Dimension: Φ45 mm x 150mm (diameter x length)
- Net Weight: 350g

**Phantom Power Specification**

- Phantom Power Supply: +48V
- Input Power: AC18V 300mA
- Input Connector: standard XLR balanced input
- Output Connector: standard XLR, balanced output
- Dimension: 90.3mm × 98mm × 41.8mm(L × W × H)
- Output Voltage: DC48V
- Power Consumption: ⩽5W
- Noise: ⩽1.8uV
- Net Weight: 430g

## GL–100USB

### Features

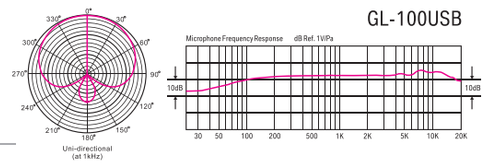
- Professional sound card
- Convenient plug and play without installation or drivers
- Condenser capsule features wide frequency response
- Headphone socket for real time monitoring
- Supports accompaniment recording
- Windows volume control includes bass, treble, AGC and MB
- Durable and rugged metal construction

### Application

- Recording, internet karaoke

### Specification

- Transmission Speed: USB 2.0 (480 Mbps)
- Power Mode: USB
- D/A & A/D Convertor: 24 bit when playback; 16 bit when recording
- Bandwidth: 20kHz (at fs=48 kHz)
- Total Harmonic Distortion: < –90dB
- S/N Ratio: > 90dB
- Headphone Output Power: >95dB
- Frequency Response: 20Hz–20kHz
- Data Transmission Interface: Mini USB Socket
- Headphone Output Interface: Φ3.5mm Stereo Socket
- System Compatibility: Windows 2000 / Windows XP


## GL–100FX

### Features

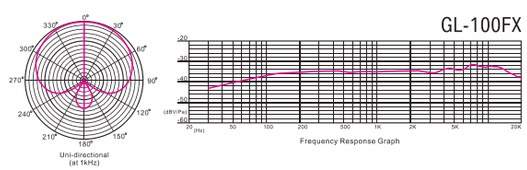
- Design for computer recording
- Computer USB power supply mode
- Built–in low noise microphone amplifier
- One cable for both power supply and audio output for convenient connection
- Condenser capsule features wide frequency response range
- Tone up control knob for adjusting microphone sensitivity
- Rugged and durable metal construction

### Application

- Recording, internet karaoke

### Specification

- Transducer Principle: Back Electret Condenser
- Frequency Response: 30Hz–20KHz
- Sensitivity: –38dB ± 3dB
- Amplifying Function: +1dB–+20dB
- Directivity Characteristic: Cardioid
- Equivalent Noise Level: ≤24dB
- Max.Input SPL: ≥130dB(At 1KHz 0dB,THD≤1%)
- Output Impedance: 100Ω ± 30%
- Power Requirements: USB DC5V






## PC–K500FX

### Features

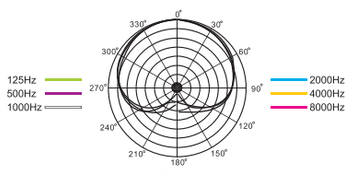
- Built–in premium 3D reverberation chip achieves hardware reverberation
- Professional 24–Bit AD/DA converter chip solves the delay problem caused by software reverberation and greatly enhance the monitoring quality. By adjusting the reverberation knob on the microphone, you can add perfect 3D reverberation effect
- Professional American TI brand top preamplifier chip for 25 times microphone volume output amplification by adjusting the 0dB–25dB gain knob. Condenser microphone with small sound due to integrated sound card no longer happens
- Professional low–noise & low–power consumption amplifier, and excellent circuit design provides S/N over 72dB which reduces the noise and distortion to the minimum
- No need driver installation and complicated debugging for easy operation
- Plug and play design (USB power mode, no need to connect with mixer, microphone amplifier or other equipment with 48V phantom power supply; audio output cable with Φ3.5mm plug for connecting to PC MIC INPUT directly)
- Supplied with simple swivel mount, desktop stand and windscreen

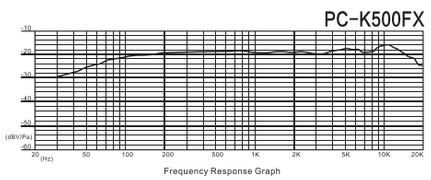
### Application

- Home entertainment, personal recording studio, chat rooms, broadcasting

### Specification

- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–20kHz
- Sensitivity: –37 ± 3dB
- Output Impedance: 100Ω ± 30%
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽22dB
- Max. SPL: ⩾130dB (at 1kHz THD⩽1%)
- S/N: ⩾72dB
- Gain: +0dB–+25dB
- Reverb Mode: 3D sound effect reverberation
- Audio Output Cable: Φ4mm x 3m (Φ3.5mm gold–plated plug)
- USB Cable: Φ4mm x 3m (standard USB plug)
- Power Supply: USB DC5V
- Dimension: Φ45mm x 150mm (diameter x length)
- Weight: 460g (included cable)

• Side–address Microphone

## SM–S (Small Package–SM–S Series)

- SM–1B–S / SM–1C–S
- SM–5B–S

### Content

- Microphone – 1pc
- H–200 swivel mount – 1pc
- W–10 windscreen – 1pc
- Aluminum carrying case with foam inlay – 1pc

## SM–M (Medium Package–SM–M Series)

- SM–1B–M / SM–1C–M
- SM–5B–M / SM–7B–M

### Content

- Microphone – 1pc
- SH–100 shock mount – 1pc (SM–1B–M / SM–1C–M / SM–5B–M)
- SH–200 shock mount – 1pc (SM–7B–M)
- W–10 windscreen – 1pc
- Aluminum carrying case with foam inlay – 1pc
- Color outer box – 1pc (for SM–7B)

## SM–L (Large Package–SM–L Series)

- SM–1B–L / SM–1C–L
- SM–5B–L / SM–7B–L

### Content

- Microphone – 1pc
- PM–5 phantom power supply – 1pc
- SH–100 shock mount – 1pc (SM–1B–L / SM–1C–L / SM–5B–L)
- SH–200 shock mount – 1pc (SM–7B–L)
- W–10 windscreen – 1pc
- C10–2 balanced and shielded cable – 1pc
- Power connecting cable – 1pc
- Aluminum carrying case with foam inlay – 1pc



• Network Karaoke Microphone


Black White Blue Bright Red Pink

## PCM–1200

### Features

- Unique outlook with multiple color options, PCM–1200 is a perfect combination of profession and fashion
- Adopts innovative electronic circuitry, PLUG and PLAY, no need 48V phantom power supply
- Specially designed for network karaoke, high sensitivity and clear sound quality
- Cardioid polar pattern features high rejection capability of acoustic feedback and reduces the howling
- Designed with non–detachable cable
- Provided with microphone mount and table stand for convenient use

### Application

- Network karaoke, network chatting

### Specification

- Transducer Principle: Back–electret condenser
- Polar Pattern: Uni–directional
- Frequency Response: 80Hz–16KHz
- Sensitivity: –32dB ± 3dB (0dB=1V/Pa at 1KHz)
- Power Requirement: Intelligent power supply by MIC socket
- Dimension: 40 × 40 × 138mm

Black Red Blue Green Silver

## K28

### Features

- Unique outlook with multiple color options, K28 is a perfect combination of profession and fashion
- Provided with special pop screen, which effectively eliminates the "POP" sound during vocal recording
- Adopts innovative electronic circuitry, PLUG and PLAY, no need 48V phantom power supply
- Specially designed for network karaoke, high sensitivity and clear sound quality
- Cardioid polar pattern features high restrain capability of acoustic feedback and reduces the howling
- Designed with non–detachable cable
- Provided with microphone mount and table stand for convenient use

### Application

- Network karaoke, network chatting

### Specification

- Element: Back electret condenser
- Polar Pattern: Cardioid
- Frequency Response: 80Hz–16kHz
- Sensitivity: –32dB ± 3dB (0dB= 1V/Pa at 1kHz)
- Operating Voltage: MIC socket intelligent power supply





## K58

### Features

- Unique outlook with multiple color options, K58 is a perfect combination of profession and fashion
- Adopts innovative electronic circuitry, PLUG and PLAY, no need 48V phantom power supply
- Specially designed for network karaoke, high sensitivity and clear sound quality
- Cardioid polar pattern features high restrain capability of acoustic feedback and reduces the howling
- Provided with microphone mount and table stand for convenient use

### Application

- Network karaoke, network chatting

### Specification

- Element: Back electret condenser
- Polar Pattern: Cardioid
- Frequency Response: 80Hz–16KHz
- Sensitivity: –46dB ± 3dB (0dB= 1V/Pa at 1KHz)
- Operating Voltage: MIC socket intelligent power supply
  or 12–52V phantom power supply

Violet Yellow White



## PH–100

### Features

- An external handheld microphone specially designed for smart mobile phone and tablet computer, suitable for mobile koraoke and recording
- 2 optional sensitivity, compatible with IOS and all Android system
- Built–in microphone reverberation processing circuit to achieve more brilliant and vivid performance effect
- Dual stereo signal output supports duet, or extend another output to the speaker or recording device
- Provided with computer audio connecting cable for computer network karaoke or recording
- Provided with portable bag for convenient storage and carrying

### Application

- Mobile phone karaoke, computer network karaoke

### Specification

- Sensitivity: –27dB at 1KHz
  –17dB(+10dB) at 1KHz
- Element: Back electret condenser
- Max. Input SPL: ⩾128dB 1KHz(THD⩽1%)
- Frequency Response: 30Hz–20KHz
- Compatible System: Android, IOS
- Battery Specification: Polymer lithium–ion battery
- Battery Capacity: 250mAh
- Power Supply: DC 5V
- Playtime: ⩾6hrs

Black White Magenta Yellow

## CM-60

### Features

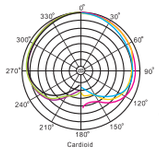
- Gold-plated diaphragm
- Cardioid directivity characteristic for ideal sound capturing
- High sensitivity and low self noise
- Suitable for high SPL environments
- Wide frequency response range and extended dynamic range
- Transformerless circuitry for noise reduction
- Low output impedance for long distance connection and high EMI resistance
- Built-in pre-amplifier circuitry for steady performance
- Optional bass filter to eliminate unwanted low frequency noise

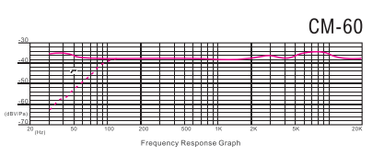
### Application

- Recording, broadcasting, on-stage performance

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–20kHz
- Sensitivity: –38dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽20dB A (IEC 581-5)
- Max. Input SPL: 130dB (THD ⩽1.0% at 1kHz)
- Bass Filter: 12dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ22 x 132mm
- Net Weight: 112g





## CM-63

### Features

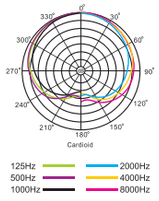
- Innovative anti-humidity technology for best performance under stringent climate environment
- Gold-plated diaphragm capsule assuring excellent transient response, wide frequency response range, high sensitivity, and accurate sound reproduction
- Built-in low noise FET for low noise and steady performance
- Optional 10dB attenuation for handling extremely high volume
- Hi-Fi OTL preamplifier featuring quality linear amplification and low distortion
- Low output impedance for minimizing power consumption under long distance connection
- Multiple surface treatments guarantee long life durability

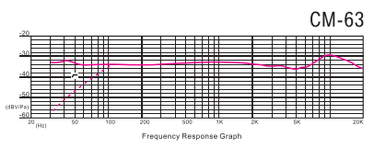
### Application

- Recording, broadcasting, on-stage performance

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20kHz
- Sensitivity: –35dB ± 2dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽20dB A (IEC 581-5)
- Max. Input SPL: 130dB (THD ⩽1.0% at 1kHz)
  140dB (with 10dB pad)
- Bass Filter: 10dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Body Dimension: Φ22 x 145mm
- Net Weight: 165g






## PCM-5100

### Features

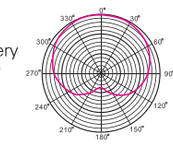
- Can handle high volume level
- Rugged metal housing
- High sensitivity, wide dynamic range and low distortion
- Built-in transistor amplifier
- On/off switch for convenient control
- Powered by batteries or phantom power supply
- Multiple surface treatments for durability

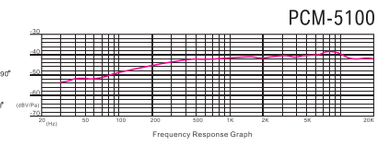
### Application

- Cymbals, piano, strings, ensembles

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –42dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 250Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Max. Input SPL: 136dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 9–52V DC Phantom Power or 1.5V Battery


## PCM-5400

### Features

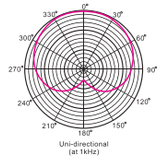
- Can handle high volume level
- Rugged metal housing
- High sensitivity, wide dynamic range and low distortion
- Built-in transistor amplifier
- Multiple surface treatments for durability

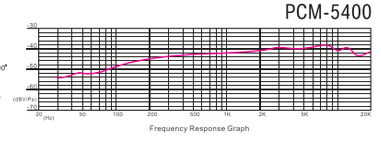
### Application

- Cymbals, piano, strings, ensembles

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –42dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Max. Input SPL: 130dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 9–52V DC Phantom Power

## PCM-6100

### Features

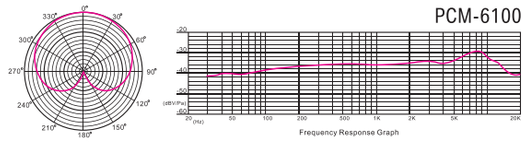
- Cardioid directivity characteristic for ideal sound capturing
- High sensitivity
- Wide frequency response range
- Rugged metal housing
- Natural and clear sound
- Built-in transistor amplifier
- Unique design
- Multiple surface treatments for durability

### Application

- Piano, strings, interview, home recording, live performance recording

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–15kHz
- Sensitivity: –36dB ± 3dB(0dB=1V/Pa at 1kHz)
- Output Impedence: 100Ω ± 30%(at 1kHz)
- Load Impedence: ⩾1000Ω
- Equivalent Noise Level: ⩽27dB A(IEC 581–5)
- Max.Input SPL:130dB(THD⩽1.0% at 1kHz)
- Power Requirement: 9–52V DC Phantom Power


• Hanging Microphone

## HM-501

### Features

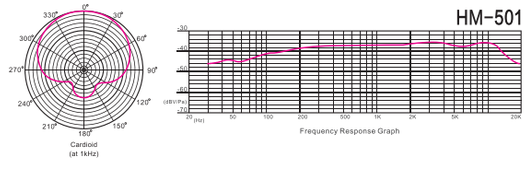
- Tailored frequency response for rich, clear and sensitive sound reproduction
- Cardioid directivity characteristic for eliminating unwanted noise
- Gooseneck body for flexible positioning and installation
- Powered by 9V to 52V phantom power supply

### Application

- Theatre, drama, conference sound reinforcement

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –37dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Power Requirement: 9–52V DC Phantom Power








## DMS-D5

### Features

- DMS–D5 features advanced electroacoustic characteristic, it is the best choice for drum set recording
- Bass drum microphone–full low frequency response for strong and dynamical bass effect pick up
- Snare drum microphone–well designed low and mid frequency, ideal for snare and tom tom drum
- Condenser microphone–wide frequency response and high frequency resolution meet the recording requirement of suspended cymbal and hi–hat
- Rugged metal body construction


### Specification

**TA–8330 specification:**

- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–16KHz
- Sensitivity: –69dB ± 3dB
- Output Impedence: 150Ω ± 30%

**TA–8230 specification**

- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 60Hz–18KHz
- Sensitivity: –53dB ± 3dB
- Output Impedence: 600 ± 30%

**PCM–6100 specification:**

- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20KH
- Sensitivity: –36dB ± 3dB
- Output Impedence: ⩽100Ω
- Load Impedence: ⩾1000Ω
- Equivalent Noise Level: ⩽25dB
- Max. SPL: 135dB(THD⩽1% at 1KHz)
- Power Requirement: 9–52V Phantom Power Supply

## DMS-D7

### Features

- DMS–D7 features advanced electroacoustic characteristic, it is the best choice for drum set recording
- Bass drum microphone–full low frequency response for strong and dynamical bass effect pick up
- Snare drum microphone–well designed low and mid frequency, ideal for snare and tom tom drum
- Condenser microphone–wide frequency response and high frequency resolution meet the recording requirement of suspended cymbal and hi–hat
- Rugged metal body construction


### Specification

**TA–8330 specification**

- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–16KHz
- Sensitivity: –69dB ± 3dB
- Output Impedence: 150Ω ± 30%

**TA–8230 specification**

- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 60Hz–18KHz
- Sensitivity: –53dB ± 3dB
- Output Impedence: 600 ± 30%

**PCM–6100 specification**

- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 20Hz–20KHz
- Sensitivity: –36dB ± 3dB
- Output Impedence: ⩽100Ω
- Load Impedence: ⩾1000Ω
- Equivalent Noise Level: ⩽25dB
- Max. SPL: 135dB(THD⩽1% at 1KHz)
- Power Requirement: 9–52V Phantom Power Supply

## Features

- Designed for professional instruments and stage applications
- Large drum microphone – designed to capture kick drum beats and low frequency musical instruments
- Small drum microphone – ideal for tom–toms and snare drums
- Condenser microphone – excellent in reproducing the sounds of instruments such as cymbals and pianos
- All microphones handle extremely high volume level with ease
- Low output impedance for long distance connection without compromising sound quality
- Multiple structure and surface treatments for durability

## DMS-DH8P

TA–8340 kick drum microphone – 1pc
TA–8280 small drum microphone – 4pcs
PCM–5100 condenser microphone – 3pcs
W–50 windscreen – 3pcs
CH–58 microphone clamp – 3pcs
DH–88 microphone mount – 4pcs
AA Alkaline battery – 3pcs
Aluminum carrying case with foam inlay – 1pc

## DMS-7AS

TA–8320 kick drum microphone – 1pc
TA–8260 small drum microphone – 1pc
TA–8250 small drum microphone – 3pcs
PCM–5400 condenser microphone – 2pcs
W–50 windscreen – 2pcs
CH–58 microphone clamp – 2pcs
Plastic carrying case with foam inlay – 1pc

## DMS-5PS

TA–8300 kick drum microphone – 1pc
TA–8200 small drum microphone – 1pc
TA–8210 small drum microphone – 1pc
PCM–5100 condenser microphone – 2pcs
W–50 windscreen – 2pcs
CH–58 microphone clamp – 2pcs
AA Alkaline battery – 2pcs
Plastic carrying case with foam inlay – 1pc





## DMS-7B

TA–8300 kick drum microphone – 1pc
TA–8200 small drum microphone – 3pcs
TA–8210 small drum microphone – 1pc
PCM–5400 condenser microphone – 2pcs
W–50 windscreen – 2pcs
CH–58 microphone clamp – 2pcs
Aluminum carrying case with foam inlay – 1pc

## DMS-7C

TA–8370 kick drum microphone – 1pc
TA–8225 small drum microphone – 4pcs
PCM–6000 condenser microphone – 2pcs
W–50 windscreen – 2pcs
CH–58 microphone clamp – 2pcs
Aluminum carrying case with foam inlay – 1pc

## DMS-7P

TA–8350 kick drum microphone – 1pc
TA–8290 small drum microphone – 4pcs
PCM–5100 condenser microphone – 2pcs
W–50 windscreen – 2pcs
CH–58 microphone clamp – 2pcs
AA Alkaline battery – 2pcs
Aluminum carrying case with foam inlay – 1pc

• Interview Microphone

## SGC-568

### Features

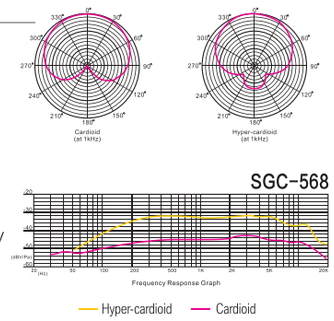
- Adopts array signal processing technology for high sensitivity and long pickup distance
- Optional cardioid and hypercardioid directivity satisfies different application
- Powered by phantom power or 1pc AA 1.5V battery for convenient use
- Alloy material housing design effectively reduce the RF signal interference and improve the recording performance
- Specially designed for interview, supplied with professional spring cable for convenient use and storage

### Application

- Interview, film shooting, broadcasting station

### Specification

- Transducer Principle: Back Electret Condenser
- Polar Pattern: Cardioid/hypercardioid
- Frequency Response: 50Hz–16KHz/80Hz–14KHz
- Sensitivity: –45dB ± 2dB/–30dB ± 2dB
- Output Impedance: 500Ω/1600Ω ± 30%(at 1KHz)
- Load Impedance: ⩾1000Ω
- Power Requirement: 9–52V phantom power or 1pc 1.5V AA battery




• Camera Recording Microphone

## SGC-598

### Features

- High sensitivity condenser microphone specially designed for camera
- Cardioid directivity characteristic can effectively reduce the ambient noise
- Optional +10dB sensitivity tone up and 200Hz bass filter meet the demand of different applications
- Shock proof design can reduce the mechanical noise of cameras and other vibration noise
- Rugged alu mic housing features effective EMI resistance
- Powered by 1.5V AA alkaline battery, playtime is up to 100hrs
- Low power indicator

### Application

- Photography, interview

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16KHz
- Sensitivity: –32dB ± 3dB(0dB=1V/Pa at 1KHz)
- Sensitivity Tone Up: +10dB
- Bass Filter: 60Hz 10dB/octave
- Output Impedance: 2000Ω ± 30%
- Power Requirement: 1.5V AA battery



## MS-400-1

### Features

- Capsense touching switch design eliminates the mechanical noise of traditional switch
- Long pickup distance and distinct sound quality
- Low frequency attenuation design for reducing ambient low frequency noise
- Cardioid directivity characteristic can effectively reduce feedback and howling
- RFI shielding technology features excellent anti-interference capability such as mobile phone signal
- On/off LED indicator
- Gooseneck microphone and base is connected via reliable aero connector

### Application

- Conference, broadcasting

### Specification

- Transducer Principle: Electret Condenser
- Directivity Characteristic: Cardioid ≤-16dB (0-180°)
- Frequency Response: 50Hz-16KHz
- Sensitivity: -30dB ± 3dB ( 0dB=1V/Pa at 1KHz )
- Low Frequency Attenuation: 100Hz 8dB / octave
- Output Impedance: 100Ω ± 30%
- Power Requirement: 12-52V phantom power

## MS-610

### Features

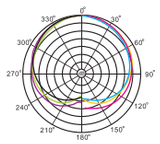
- Gold-plated diaphragm
- Low distortion and self noise
- High sensitivity, wide dynamic range and distinct sound characteristic
- Pivoting joint for flexible positioning
- 90° rotatable design between capsule & base
- Standard XLR balanced output connector

### Application

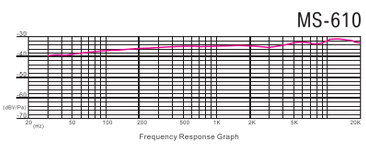
- Conference system, broadcasting

### Specification

- Transducer Principle: True Condenser
- Directivity Characteristic: Cardioid≥13dB
- Frequency Response: 20Hz-20kHz
- Sensitivity: -36dB ± 3dB (0dB=1V/Pa at 1kHz)
- Power Requirement: 48V Phantom Power




MS-610




Frequency Response Graph





## MS-600

### Features

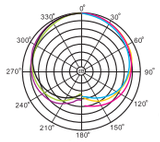
- Φ22mm gold-plated diaphragm
- Low distortion and self noise
- High sensitivity, wide dynamic range and distinct sound quality
- Excellent shielding against GSM signals
- 90° rotatable design between capsule & pipe , pipe & base

### Application

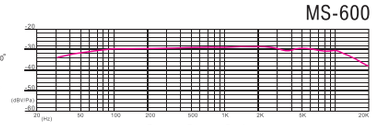
- Public address, conference system, church, broadcasting

### Specification

- Transducer Principle: True Condenser
- Polar Pattern: Uni-directional
- Frequency Response: 30Hz-18kHz
- Sensitivity: -38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Max.Input SPL: 135dB (at 1kHz≤1% T.H.D)
- Self Noise: 24dB A
- S/N Ratio: 70dB
- Phantom Power Requirement: 9V-52V DC phantom




MS-600




Frequency Response Graph

## ECM-120

### Features

- Excellent rejection of sound feedback which minimize the howling
- Red working status ring
- Screw joint between gooseneck and base ensures low handling noise
- Rugged metal housing
- On/off switch at base with LED indicator
- Powered by AA batteries or phantom power supply-automatic switching

### Application

- Conference, PA

### Specification

- Transducer Principle: Back Electret Condenser
- Polar Pattern: Cardioid
- Frequency Response: 100Hz-16KHz
- Sensitivity: -37dB ± 3dB (0dB=1V/Pa at 1HKz)
- Output Impedance: 100Ω ± 30% (at 1HKz)
- Power Requirement: 9-52V Phanton power or 3V ( 2pcs 1.5V AA batteries)

## ECM-220

### Features
- Φ22mm gold-plated diaphragm capsule
- Low distortion and self noise
- High sensitivity, wide dynamic range and distinct sound quality
- Stable performance
- 90° rotatable design between capsule & pipe, pipe & base features angle adjustment flexibility for best pick up effect
- RFI shield technology features excellent anti-interference capability such as mobile phone signal
- CapSense touching on/off switch design eliminates the mechanical noise of traditional switch

### Application
- Public address, conference system, church, broadcasting

### Specification
- Transducer Principle: Pressure and Psid Combination Principle
- Element: Gold-plated diaphragm capsule
- Polar Pattern: Cardioid
- Frequency Response: 30Hz-20KHz
- Sensitivity: -39dB ± 3dB (0dB=1V/Pa at 1KHz)
- Self Noise: ≤18dBA
- Output Impedance: 100Ω ± 30%
- Power Requirement: 48V Phantom power

## MS200-2

### Features
- Excellent rejection of unwanted signals
- Screw joint between gooseneck and base ensures low handling noise
- Rugged metal housing
- On/off switch at base with LED indicator
- Powered by AA batteries or phantom power supply-automatic switching

### Application
- Church, conferences, public address

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 100Hz-16kHz
- Sensitivity: -37dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Power Requirement: 9-52V DC Phantom Power or 2pcs 1.5V AA Battery





## MS-189

### Features
- Back electret condenser transducer
- High sensitivity and low noise
- Clear and bright vocal pick-up
- On/off button with LED indicator on base and gooseneck
- Optional use of phantom power or batteries
- Excellent quality, easy control and low power consumption

### Application
- Public address, conference system, church, broadcasting

### Specification
- Transducer Principle: Back electret condenser
- Directivity Characteristic: Hyper-cardioid
- Frequency Response: 40Hz-16kHz
- Sensitivity: -38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Power Requirement: 9-52V Phantom Power or 2pcs 1.5V AAA battery

## MS-158

### Features
- Back electret condenser unit
- High sensitivity and low self noise
- Fixed gooseneck microphone with LED ring
- Standard XLR balanced output connector
- Powered by AA batteries or phantom power supply-automatic switching

### Application
- Public address, conference system, church, broadcasting

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 100Hz-16kHz
- Sensitivity: -37dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Power Requirement: 9-52V DC Phantom Power or 2pcs 1.5V AA Battery

## MS–138

### Features
- Back electret condenser unit
- High sensitivity and low self noise
- Detachable gooseneck microphone with LED ring
- Standard XLR balanced output connector
- Powered by AA batteries or phantom power supply–automatic switching

### Application
- Public address, conference system, church, broadcasting

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Power Requirement: 9–52V DC Phantom Power or 2pcs 1.5V AA Battery

## MS–118

### Features
- Back electret condenser unit
- High sensitivity and low self noise
- Fixed gooseneck microphone with LED ring
- Powered by AA batteries

### Application
- Public address, conference system, church, broadcasting

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Power Requirement: 2pcs 1.5V AA Battery





## MS–550

### Features
- Convenient plug and play setup
- Elegant design with anti–skid base
- Quality ABS material with noble finish
- Mute on / off control
- Distinct and clear vocal pickup
- Excellent shielding against unwanted noise

### Application
- Voice over IP, station counter, bank counter, conference address

### Specification
- Transducer Principle: Condenser
- Directivity Characteristic: 0mni
- Sensitivity: –38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Frequency Response: 20Hz–20kHz
- Output Impedance: ⩽2.2kΩ
- Operating Voltage: 1.5–4.5V
- Cable: 2m
- Adaptor Plug: Stereo Φ3.5mm

## MS–168W

### Features
- VHF 220MHz–270MHz frequency band
- Multi–level narrow–band with filter to fully clear up interference of hash
- Low–voltage power supply design for economic operation
- Pure quartz circuit for more stable frequency
- Wide dynamic range
- Effective feedback reduction
- Fit into wired and wireless application
- Ultra high directivity
- Elegant shape, easy installation and simple operation

### Application
- Public address, conference system, church, broadcasting

### Specification
- Squelch Control: Noise Lock
- Carrier Frequency: 220MHz–270MHz
- Directivity Characteristic: Cardioid
- Frequency Response: 100Hz–12kHz
- Frequency Deviation: ± 18kHz
- Frequency Steadiness: ± 0.005%
- S/N Ratio: > 80dB
- Total Harmonic Distortion: < 1% (at 1kHz)
- Transmit Power: ⩽10mW
- Receiver Power Supply: DC 9V/300mA
- Transmitter Power Supply: 2pcs 1.5V AA Battery
- Operating Range: 50m in Open Area

• Table Conference Microphone

DG–C100R

**Host Unit**

DG–C100T1

**Chairman Unit**

DG–C100T2

**Delegate Unit**


## DG–C100

### Features

- 2.4G digital wireless military communication and ADFHSS technology feature high confidentiality, strong anti–interference and long operating range up to 25–40m
- The system consists of host unit, chairman unit and delegate units up to 254pcs
- 4 transmitters are allowed to speak at the same time without interference
- Optional free or application speech mode of delegate units controlled by the chairman unit
- Intelligent power management system features battery power saving(All units turn off automatically when chairman unit is turned off)
- Built–in high performance frequency shifter reduces howling and enhance the sound pick up effect
- LCD display indicates working status and battery power
- Host unit features balanced and unbalanced output for convenient connection with audio equipments

### Application

- Enterprise & Government Conference

### Specification

- Carrier Frequency: 2.4G (2400–2830MHz) digital FHSS technology
- Operating Range: 25–40m (indoors)
- Chairman & Delegate Units Power Supply: 2pcs AA batteries
- Battery Play Time: ⩾8hrs
- Host Unit Power Supply: DC–12V/1A
- Frequency Response: 70Hz–15KHz



• Boundary Microphone

## BM–620

### Features

- Hyper–cardioid polar pattern and high sensitivity for detailed and directional pick–up
- Wide frequency response range for natural sound reproduction
- LED mute indicator and push on/off mute switch

### Application

- Conference, church, broadcasting

### Specification

- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Hyper–cardioid
- Frequency Response: 60Hz–16kHz
- Sensitivity: –36dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200 Ω ± 30% (at 1kHz)
- Power Requirement: 9–52V Phantom Power

## BM–621

### Features

- Electrophoretic surface treatment of mesh cover features high grade outlook and high corrosion–resistant capability
- Quality cardioid capsule features long pick up distance and excellent sound quality
- Capsense touching on/off switch eliminates the switch mechanical noise
- Advanced RFI shielding technology isolates the mobile phone signal interference
- 60Hz high–pass filter effectively eliminates the undesired low frequency noise
- 9V–52V phantom power supply
- Provided with professional XLR output cable

### Application

- Senior conference, video conferencing, security monitor

### Specification

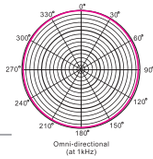
- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–20kHz
- Sensitivity: –31dB ± 3dB(0dB=1V/Pa at 1 kHz)
- Equivalent Noise Level: 24dB A
- Mute Switch: Capsense touching switch
- Dimension: 100 x 73 x 24mm
- Power Requirement: 9–52V DC, 4mA typical
- Output Impedance: 100 Ω ± 30%(at 1 kHz)
- Low Frequency Roll–off: 60Hz–200Hz 10dB ± 2dB
- Max. Input Level: 130dB(THD ⩽ 1.5% at 1kHz)
- Net Weight: 210g

## BM-630C

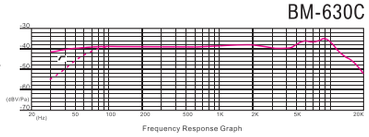
### Features
- 0mni-directional polar pattern
- LED mute indicator and push on/off mute switch
- Optional bass filter to eliminate unwanted low frequency noises
- Unique design for surface-mount use
- Rugged housing equipped with rubber base for reducing shock noise

### Application
- Conference, church, broadcasting

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: 0min-directional
- Frequency Response: 40Hz-16kHz
- Sensitivity: -36.5dB ± 2.5dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Equivalent Noise Level: ≤26dB A (IEC 581-5)
- Max. Input SPL: 130dB (THD ≤1.0% at 1kHz)
- Bass Filter: 10dB/octave at 80Hz
- Power Requirement: 9-52V DC Phantom Power




BM-630C

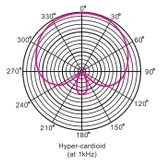



## BM-630

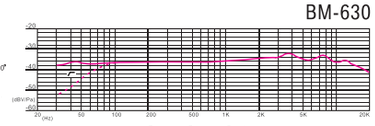
### Features
- Hyper-cardioid directivity characteristic and high sensitivity for detailed and directional pick-up
- LED mute indicator and push on/off mute switch
- Switchable bass filter to eliminate unwanted low frequency noises
- Unique design for surface-mount use
- Rugged housing equipped with rubber base for reducing shock noise

### Application
- Conference, church, broadcasting

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Hyper-cardioid
- Frequency Response: 40Hz-16kHz
- Sensitivity: -36dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Equivalent Noise Level: ≤26dB A (IEC 581-5)
- Max. Input SPL: 130dB (THD ≤1.0% at 1kHz)
- Bass Filter: 10dB/octave at 80Hz
- Power Requirement: 9-52V DC Phantom Power




BM-630





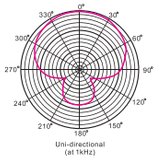



## GN-210

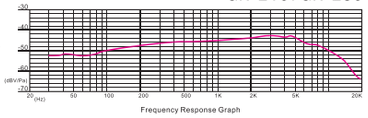
### Features
- LED ring power indicator
- Quality gooseneck design
- Screw mount installation

### Application
- Broadcasting, conference, public address

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Hyper-cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 1000Ω ± 30% (at 1kHz)
- Power Requirement: DC 1.5-5V
- Length: 405mm




GN-210/GN-230




## GN-230

### Features
- Double gooseneck construction for flexible positioning
- Power requirement of 9-52V DC for ease of installation

### Application
- Conference, public address

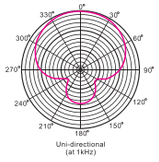
### Specifcation
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Hyper-cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Power Requirement: 9-52V DC Phantom Power
- Length: 505mm

## GN-250

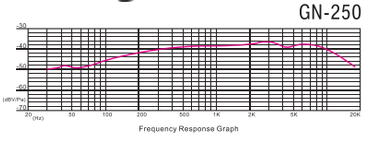
### Features
- High sensitivity
- LED ring power indicator
- Double gooseneck construction for flexible positioning
- Power requirement of 9-52V DC for ease of installation

### Application
- Conference, broadcasting, public address

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Hyper-cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -38dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 250Ω ± 30% (at 1kHz)
- Power Requirement: 9-52V DC Phantom Power
- Length: 515mm




GN-250

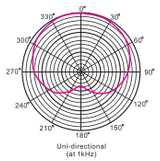


## GN-260

### Features
- Gold-plated diaphragm for most accurate sound reproduction
- High sensitivity and wide frequency response range
- Suitable for high SPL environments
- Built-in bass roll-off switch
- Double gooseneck construction for flexible positioning

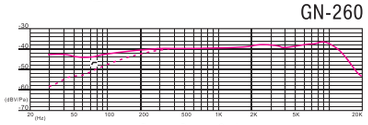
### Application
- Conference, broadcasting, public address, communication, home recording

### Specification
- Transducer Principle: Electrostatic Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -40dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 200Ω ± 30% (at 1kHz)
- Equivalent Noise Level: ≤24dB A (IEC 581-5)
- Max. Input SPL: 130dB (THD ≤1.0% at 1kHz)
- Bass Filter: 6dB/octave at 80Hz
- Power Requirement: 9-52V DC Phantom Power
- Length: 500mm



Uni-directional (at 1kHz)

GN-260



Frequency Response Graph



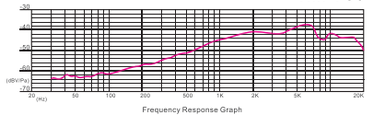
## HM-700

### Features
- Cardioid vocal pick-up
- Overhead wear style

### Application
- Teaching, touring, reception, performance, used with voice amplifier or wireless transmitter

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 1000Ω ± 30% (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 1.5V

HM-700



Frequency Response Graph





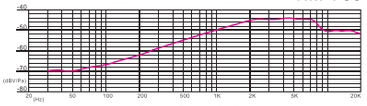
## HM-760

### Features
- Cardioid vocal pick-up
- Small and exquisite overhead wear style
- Ergonomic design provides comfortable fit
- High sensitivity and excellent feedback reduction
- Full shielded coaxial-cable assuring minimum electromagnetic interference

### Application
- Teaching, touring, speech , sales promotion, used with voice amplifier or wireless transmitter

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 100Hz-12.5kHz
- Sensitivity: -45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 2.2KΩ (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 2.0V

HM-760



Frequency Response Graph

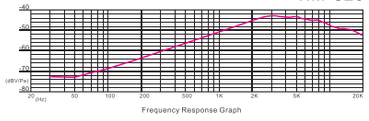
## HM-820

### Features
- High sensitivity
- Uni-directional vocal pickup for maximum feedback rejection
- Remote switch control on the mini handheld microphone for turning on/off the amplifier conveniently when the microphone is used together with Taskstar DA-1210 portable amplifier

### Application
- Using with voice amplifier or wireless microphone

### Specification
- Transducer Principle: Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 80Hz-12kHz
- Sensitivity: -46dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 2.2KΩ ± 30% (at 1kHz)
- Operating Voltage: DC 1.5-6V
- Adaptor Plug: Stereo 3.5mm

HM-820



Frequency Response Graph

## HM-800

### Features
- Cardioid vocal pick-up
- Small and exquisite overhead wear style
- Ergonomic design provides comfortable fit
- High sensitivity and excellent feedback reduction
- Full shielded coaxial-cable assuring minimum electromagnetic interference

### Application
- Teaching, touring, speech , sales promotion, used with voice amplifier or wireless transmitter

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 100Hz-12.5kHz
- Sensitivity: -45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 2.2KΩ (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 2.0V

• Lavalier Microphone

## TCM-300

### Features
- Cardioid directivity characteristic
- Clear and natural vocal reproduction

### Application
- Lecture and presentation halls, theatre, broadcasting, interview

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 70Hz–16kHz
- Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 1.5V
- Cable Dimension: Φ1.9mm x 5m

## TCM-370

### Features
- Cardioid directivity characteristic
- High sensitivity
- Clear and natural vocal reproduction
- Light–weight design for flexible positioning
- Unique plastic nip, firm and gentle on textile

### Application
- Interview, performance, broadcasting, instrument recording

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 680Ω ± 30% (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 1.5V
- Cable Dimension: Φ1.7mm x 1.2m


## TCM-380

### Features
- High sensitivity
- Clear and natural vocal reproduction
- Uni–directivity characteristic
- Light–weight design for wearing comfort

### Application
- Interview, performance, broadcasting, instrument recording

### Specification
- Transducer Principle: Condenser
- Directivity Characteristic: Uni–directional
- Frequency Response: 70Hz–15kHz
- Sensitivity: –47dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 680Ω ± 30% (at 1kHz)
- Operating Voltage:1.5V–10V
- Cable Dimension: Φ1.8mm x 1.2m


## TCM-390

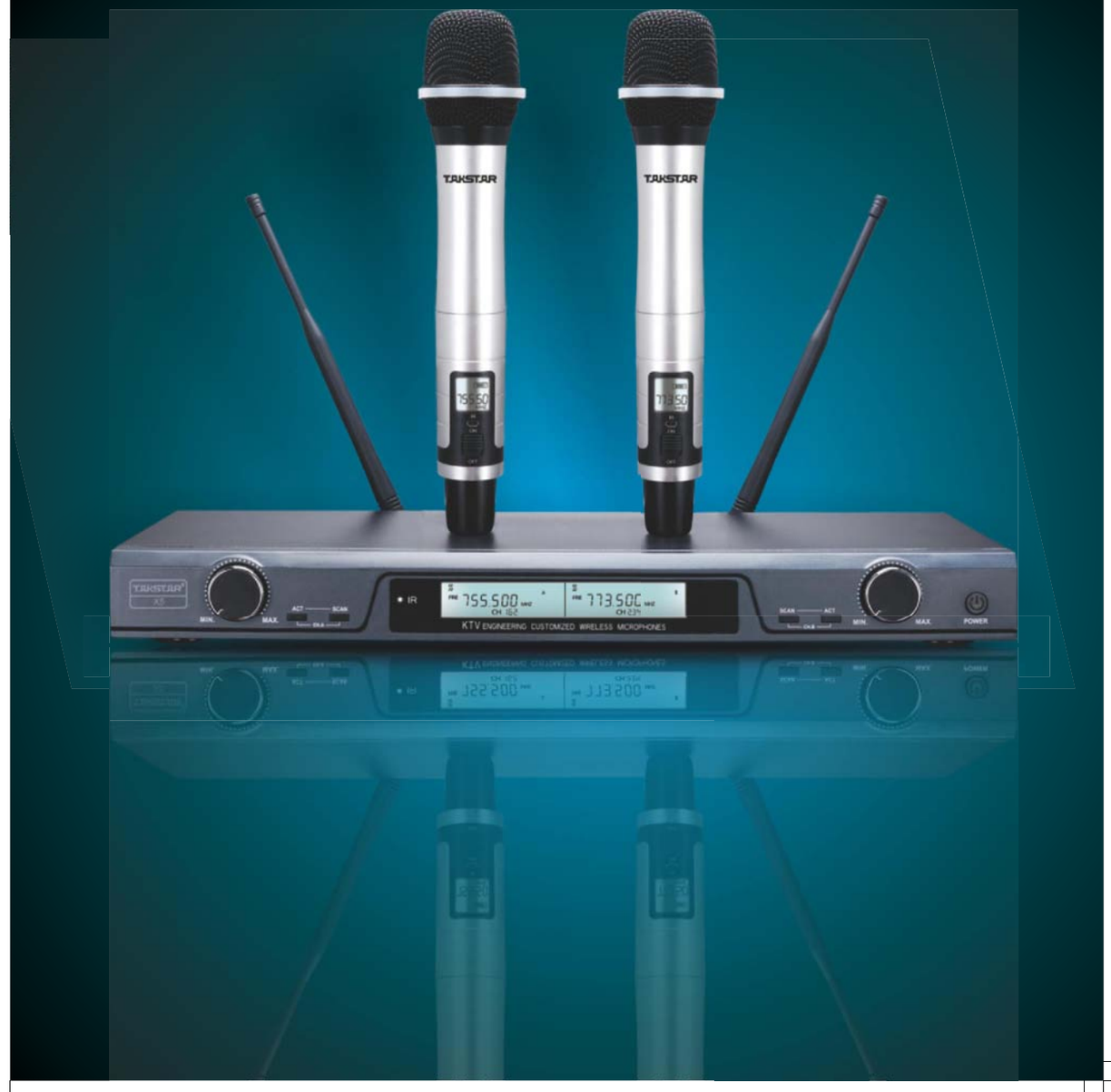
### Features
- Cardioid directivity characteristic
- High sensitivity and clear sound
- Small and exquisite design for flexible positionong and easy wearing

### Application
- Interview, performance, broadcasting, instrument recording

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 680Ω ± 30% (at 1kHz)
- Max. Operating Voltage: 10V
- Power Requirement: 1.5V
- Cable Dimension: Φ1.7mm x 1.2m



# Wireless Microphone ▸




## DG-K80

### Features

- 2.4G digital frequency hopping technique for filtering radio interference automatically
- Intelligent ID recognition synchronous technology for conveniently using several systems at one venue
- Integrated application of digital audio processing technology provides clear sound reproduction
- Large LCD screen on receiver displays audio and RF signal strength, digital ID on line information, etc
- Independent balanced and unbalanced audio output for conveniently connection with various sound equipment
- Powered by Li–ion rechargeable battery for long play time up to 10 hours, the system provides the intelligent recharging base for convenience, economy and environment protection
- Rugged and durable metal construction

### Application

- Engineering installation, home entertainment

### Specification

- Carrier Frequency: 2.4GHz–2.48GHz
- Frequency Response: 50Hz– 18KHz
- Channels: Digital frequency–hopping
- Transmit Power: ⩽10dBm
- Receiving Sensitivity: –105dBm
- S/N: ⩾85dB
- Operating Range: ⩾30m, 50m in open area
- Recharging Period: Approx.8hrs
- Playtime: 10–12hrs
- Battery: 3.7V/1000mAh Li–ion battery







## X2

### Features

- UHF wireless microphone frequency band guarantees interference–free performance
- DPLL digital frequency synthetic technique provides totally 400 selectable channels（2 frequency bands, 200 channels per band)
- Infrared frequency synonization technology for easy operation
- Digital pilot frequency control and noise lock technology protects from RF interference and on/off impulsive sound
- Powered by 1pc Li–ion rechargeable battery, the system provides the intelligent recharging base for convenience,economy and environment protection
- Independent balanced and unbalanced audio output for convenient connection with various sound equipment
- ACT automatic channel targeting function for fast interference–free channel setting

### Application

- Karaoke engineering installation, stage performance, celebration, conference, home entertainment

### Specification

#### System Specification

- Frequency Range: 740~790MHz
- Modulation Mode: FM
- Adjustable Range: 50MHz
- Number of Channels: 200
- Frequency Spacing: 250KHz
- Frequency Steadiness: < ± 0.005%
- Dynamic Range: 100dB
- Max. Frequency Deviation: ± 45KHz
- Frequency Response: 80Hz–18KHz( ± 3dB )
- S/N Ratio: >105dB
- THD: ⩽0.5%
- Operating Temperature: –10℃–+40℃
- Operating Range: 35m

#### Receiver Specification

- Receiver Mode: Double superheterodyne
- Intermediate Frequency: First: 110MHz, second: 10.7MHz
- Antenna Interface: TNC/50Ω
- Sensitivity: 12 dB μ V (80dB S/N)
- Spurious Suppression: ⩾75dB
- Max. Output Level: +10 dBV

#### Transmitter Specification

- Output Power: 10mW
- Spurious Suppression: –60dB
- Power Supply: 1pc 3.7V lithium–ion battery
- Playtime: Approx. 12hrs
- Recharging Period: Approx. 5hrs

X4–TH

X4–TL

X4–TD

## X4

### Features

- UHF wide frequency band design provides 800 selectable frequencies
- D–PLL RF frequency lock technique for accurate frequency and stable performance
- Double conversion receiving technology features strong signal receiving ability
- 10 groups of interference–free reception frequencies pre–setting for convenient setup of multiple systems at one venue
- Adopts professional audio companding technique for low noise and wide dynamic range
- Intelligent microcomputer control enables 4 wireless microphones to work simultaneously
- Designed with 4 independent audio outputs, 1 mixed output and 4 independent volume control for different application requirements
- Intuitive LC–display on both receiver and transmitters

### Application

- Meeting room, campus classroom, karaoke, home entertainment, outdoor activities

### Specification

- Frequency Range: 830~870MHz
- Modulation Mode: FM
- Adjustable Range: 40MHz
- Number of Frequencies: 800
- Frequency Spacing: 50KHz
- Frequency Steadiness: ±0.005%
- Dynamic Range: 100dB
- Max Frequency Deviation: ±48KHz
- Audio Frequency Response: 80Hz~15KHz(±3dB)
- S/N Ration: >105dB A+
- Total Harmonic Distortion: ⩽1.0%
- Receiving Mode: Double conversion superheterodyne
- Intermediate Frequency: First: 184.2MHz, Second: 10.7MHz
- Wireless Interface: TNC/50Ω
- Sensitivity: 12 dBμV (80dB S/N)
- Spurious Suppression: ⩾75dB
- Output Power: 0 dBV
- Spurious Suppression: 0dBV
- Power Supply: 2pcs AA batteries
- Playtime: Approx.10 hours





## X5

### Features

- UHF wide frequency band design offers 200 frequencies
- Excellent interference–free reception
- Twice superheterodyne frequency conversion receiving technology features strong signal receiving ability
- D–PLL RF frequency lock technique for accurate frequency and stable performance
- Professional audio companding technique for reducing the noise and increasing the dynamic range
- Advanced pilot signal lock function can better avoid interference and eliminate the on / off mechanical noise
- Separate (XLR) or mixed (6.3mm) output for easy connection with various audio equipment

### Application

- Karaoke engineering installation, live performance

### Specification

- Squelch Control: Noise lock and pilot signal testing
- Frequency Deviation: ±48kHz
- Frequency Response: 60Hz–15kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >95dB A+
- Total Harmonic Distortion: <0.5%(at 1kHz)
- Number of Frequencies: 200
- Sensitivity: –90dBm
- Operating Range: 50m
- Power Supply of Receiver: external DC 12V/500mA adaptor
- Power Supply of Transmitter: 2pcs of AA batteries
- Transmit Power: <10mW
- Frequency Range: 740MHz–790MHz
- Output Type: Separate (XLR) or mixed (6.3mm)

## X6

### Features

- UHF intelligent wireless audio transmission technology features stable and high interference–free performance
- Advanced frequency scan function features automatical and fast interference–free frequency selection
- Built–in digital frequency assignment system provides more than 100 sets system for engineering installation
- Infrared frequency synchronization technology, LC–display on receiver and transmitter for easy and convenient operation
- Transmitter is powered by 2pcs 1.5V batteries for easy replacement
- Balanced and unbalanced output on receiver for convenient connection with various equipments
- Long operating range up to 50 meters
- Transmitter housing are treated with alloy oxidation for high ruggedness and against corrosion

### Application

- Engineering installation, on–stage performance, home entertainment, speech

### Specification

**System Specification**

- Frequency Range: 740 ~790MHz
- Adjustable Range: 50MHz
- Frequency Spacing: 250KHz
- Modulation Mode: FM
- Number of Channels: 200
- Frequency Steadiness: < ±0.005%
- Dynamic Range: 100dB
- Max. Frequency Deviation: ±45KHz
- S/N Ratio: >105dB
- Operating Temperature: –10°~+40°
- Audio Response: 80Hz ~ 18KHz (±3dB)
- THD: ≤0.5%

**Transmitter Specification**

- Output Power: <10mW
- Power Supply: 2pcs AA battery
- Spurious Suppression: –60dB
- Playtime: >10hrs

**Receiver Specification**

- Receiver Mode: Double conversion superheterodyne
- Intermediate Frequency: First: 110MHz, Second: 10.7MHz
- Sensitivity: 12dB u V (80 dB S/N)
- Sensitivity Adjustment Range: 12–32dB u V
- Spurious Suppression: ≥75dB
- Wireless Interface: TNC/50Ω
- Max. Output Level: +10dBV





## X7

### Features

- UHF wide frequency band design offers 200 frequencies
- Excellent interference–free reception
- Double conversion superheterodyne receiving technology features strong signal receiving ability and long operating range
- D–PLL RF stable technique for accurate frequency and stable performance
- Professional audio companding technique for reducing the noise and increasing the dynamic range
- Advanced pilot signal lock function can better avoid interference and eliminate the on/off mechanical noise
- Separate (XLR) or mixed (6.3mm) output for easy connection with various audio equipment

### Application

- Campus meeting, speech, ceremony, outdoor activies, long distance applications

### Specification

- Frequency Range:740MHz–790MHz
- Modulation Mode: FM
- Adjustable Range: 50MHz
- Number of Frequencies: 200
- Frequency Spacing: 250kHz
- Frequency Steadiness: ±0.005%
- Dynamic Range: 100dB
- Max. Frequency Deviation: 80Hz–18kHz (±3dB)
- S/N Ratio: >105dB
- Total Harmonic Distortion: ≤0.5%
- Operating Temperature: –10°~40°
- Operating Range: 500m in open area

## X8

### Features

- PLL stable frequency control system provides 200 well–selected channel
- Interactive wireless intelligent installation patent technology features one–click full–automatic interference detection & parameter setting, multiple sets of system can be conveniently installed
- Receiver features both auto–installation and manually frequency setting mode
- Button lock function on receiver prevents mis–operation
- Transmitter is powered by rechargeable Li–ion battery for long play time and environmental protection
- Top level audio companding technology features natural sound reproduction
- Balanced (XLR) and unbalanced (6.35mm) output for convenient connection with various audio equipment

### Application

- Auto–installation of multiple sets for luxury club, high end karaoke, bar, etc

### Specification

**System Specification**

- Frequency Range: 740~790MHz
- Modulation Mode: FM
- Adjustable Range: 50MHz
- Number of Channels: 200
- Frequency Spacing: 250KHz
- Frequency Steadiness: < ±0.005%
- Dynamic Range: 100dB
- Max. Frequency Deviation: ±45KHz
- Audio Response: 80Hz~18KHz (±3dB)
- S/N Ratio: >105dB
- THD: ≤0.5%
- Operating Temperature: –10℃ ~ +40℃
- Operating Range: 50m in open area

**Receiver Specification**

- Receiver Mode: Double conversion superheterodyne
- Intermediate Frequency: First: 110MHz, Second: 10.7MHz
- Wireless Interface: TNC/50Ω
- Sensitivity: 12dB u V (80 dB S/N)
- Spurious Suppression: ⩾75dB
- Max. Output Level: +10dBV

**Transmitter Specification**

- Output Power: <10mW
- Spurious Suppression: –60dB
- Power Supply: 1pc 3.7V Li–ion battery
- Playtime: Approx. 12hrs
- Recharging Period: Approx. 5hrs






## TS–8807

### Features

- Dual channel UHF wireless microphone system designed for the various professional and semi–professional applications
- Digital PLL circuit guarantees a reliable sound synthesis and at more than 200 optional frequency settings provide the freedom to setup multiple systems at one venue
- Microphone synchronization via infrared data transmission
- Adjustable transmitter power makes it suitable for various applications like on–stage performances, universities as well as KTV–clubs
- Key lock function on receiver and transmitter avoids misoperation.
- Squelch function ensures optimal performance tailored to the demands of the application
- LC–displays on receiver and transmitters enable an intuitive communication with the user

### Application

- Karaoke, motional sound source recording and amplifying, live–performances, conference, house of worship, musical and opera

### Specification

- Frequency Range: 720MHz–820MHz
- Frequency Control: PLL synthesized function
- Bandwidth: 50MHz
- Frequency Precision: ±5ppm<10kHz
- Frequency Steadiness: ±0.005%
- Modulation Mode: FM
- Number of Channels: 2 Channels
- Number of Frequencies: 200
- Frequency Spacing: 250KHz
- Frequency Response: 80Hz–18KHz (–3dB)
- Max. Frequency Deviation: ±45KHz
- S/N Ratio: >105dB
- Receiving Sensitivity: 12dBuV (80dBS/N)
- Total Harmonic Distortion: <0.5% (at 1kHz)
- Dynamic Range: >100dB
- Harmonic Interference Rate: ⩾50dB
- False Image Interference Rate: ⩾60dB
- Transmit Power: 10mW at high power, 3mW at low power

**Transmitter**

- Power Supply: 2pcs 1.5V AA batteries
- Playtime: 10hrs (depending on batteries)
- Operating Range: 50m (depending on distance and environment)
- Operating Temperature: –20°~60°
- Output Type: Independent Balanced and Unbalanced Outputs

## TS-8808

### Features

- UHF wide frequency band design provides 200 selectable channels, multiple sets of system can be used simultaneously
- D–PLL RF frequency lock technique for accurate frequency and stable performance
- Twice frequency conversion receiving technique features high interference–resistant capability
- Professional audio companding technique for reducing the noise and increasing the dynamic range
- Button lock function on receiver prevents mis–operation
- Transmit power switching function for reducing radiation and extend the battery life when switching to low transmit power under short operating range
- Adjustable receiving sensitivity function for desired receiving effect or operating range according to actual environment
- Receiver and transmitters feature intuitive working status LCD for convenient use

### Application

- Classroom, karaoke, home entertainment, live performance

### Specification

- Frequency Range: 740–790MHz
- Modulation Mode: FM
- Bandwidth: 50MHz
- Number of Frequencies: 200
- Frequency Spacing: 250KHz
- Frequency Steadiness: within ±0.005%
- Dynamic Range: >100dB
- Max. Frequency Deviation: ±45KHz
- Frequency Response: 80Hz–18KHz(±3dB)
- S/N Ratio: >105dB A+
- Total Harmonic Distortion: ⩽1.0%

**Receiver Specification:**

- Receiver Mode: Double frequency conversion superheterodyne
- Intermediate Frequency: First: 110MHz; second: 10.7MHz
- Antenna Interface: TNC/50Ω
- Sensitivity: 12 dBu V (80dB S/N)
- Sensitivity Space: 12–32 dB μ V
- Spurious Suppression: ⩾75dB
- Max. Output Level: +10dBV

- **Transmitter Specification:**
- Output Power: High power 10mW; low power 3mW
- Spurious Suppression: –60dB
- Power Supply: 2pcs AA batteries

Operating Time: More than 10 hours under power 10mW,
more than 15 hours under power 3mW





## TS-9310

### Features

- TUNER balanced diversity reception technique effectively improve the dead corner and background noise problem
- The receiver antenna port can supply power to the external antenna amplifier and other distance extension equipments
- UHF wide band design, 1000 selectable channels
- Receiver features automatic interference signal recognition ability and can automatically avoid the interference channels
- Up to 10 steps of adjustable receiving operating range enables the system to exclude other interference signal
- Transmitter battery power level can be indicated on the receiver LCD
- Double conversion receiving technique features super strong signal receiving ability, long operating range is up to 150 meters
- D–PLL RF stability technique features accurate frequency and stable working performance
- Microphone adopts professional audio companding technique for low noise and wide dynamic range
- Advanced pilot signal lock function can better avoid interference and eliminate the on/off mechanical noise
- Independent XLR output and mixed 6.3mm output for convenient connection with the audio processing and amplifier equipment

### Application

- Live performance, program recorded broadcast, large conference

### Specification

- Squelch Control: Noise lock and pilot signal testing
- Frequency Deviation: ±48kHz
- Frequency Response: 60Hz–18kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >95dB A+
- Total Harmonic Distortion: <0.5%(at 1kHz)
- Number of Frequencies: 1000
- Sensitivity: –90dBm ~ –65dBm 10 adjustable level
- Operating Range: 150m in open area
- Receiver Power Supply: External DC 12V/1000mA power adaptor
- Transmitter Power Supply: 2pcs of AA batteries
- Transmit Power: <10mW
- Frequency Range: 740MHz–765MHz
- Output Type: Balanced (XLR) and unbalanced (6.3mm), headphone monitor output(6.3mm)


## TS-7210

### Features

- UHF wireless frequency band, double conversion superheterodyne and dual antenna receiving technology guarantee interference–free reception
- Transmitter features battery power indication (lights green when power is normal, glitters green and then off when power is low)
- Microphone adopts professional audio companding chip for excellent transient response and wide dynamic range
- Quartz frequency doubling, data pilot frequency, noise lock technology prevent RF interference and on/off switch impulsive noise, and improve the SNR
- Transmitter is powered by 2pcs AA battery for convenient use

### Application

- PC recording, home entertainment

### Specification

- Frequency Range: 790MHz–805MHz
- Frequency Control: PLL/Quartz frequency doubling
- Frequency Steadiness: ±0.005%
- Modulation Mode: FM
- Channel: fixed
- Receiving Mode: double conversion superheterodyne
- Frequency Response: 60Hz–15kHz
- Max. Frequency Deviation: ±45kHz
- S/N Ratio: >80dB
- THD:<0.5%
- Receiving Sensitivity: –90dBm
- Dynamic Range: >100dB
- Audio Output: unbalanced Φ6.3mm jack
- Transmit Power: <10mW
- Transmitter Power Supply: 3V(2pcs 1.5V battery)
- Transmitter Battery Playtime: approx. 10hrs(depending on the battery)
- Operating Range: 50m outdoors
- Operating Temperature: –20℃~ 60℃



• UHF Wireless Microphone


## TS-7220

### Features

- UHF frequency band features interference–free reception
- Long operating range up to 50 meters in open area
- Handheld microphone features companding circuit and high quality capsule for maximum feedback rejection and consistent sound quality
- Powered by 2pcs of 1.5V batteries
- Advanced pilot signal lock function can better avoid interference and eliminate the on/off mechanical noise
- Mixed (6.3mm) output for easy connection with various audio equipment
- Quartz frequency multiplication fixed frequencies on receiver for simple and convenient use

### Application

- Campus meeting, entertainment, speech, karaoke

### Specification

- Frequency Range: 790MHz–805 MHz
- Frequency Control: PLL/Quartz frequency multiplication
- Frequency Steadiness: ±0.005%
- Modulation Mode: FM
- Channel: fixed
- Receiving Mode: double conversion superheterodyne
- Frequency Response: 60Hz – 15kHz
- Max. Frequency Deviation: ±45kHz
- S/N Ratio: >80dB
- THD: <0.5%
- Receiving Sensitivity: –90dBm
- Dynamic Range: >100dB
- Audio Output: unbalanced mixed output
- Transmitter Power: <10mW
- Transmitter Power Supply: 3V (2pcs 1.5 batteries)
- Transmitter Battery Playtime: approx. 10hrs (depending on the battery)
- Operating Range: 50m outdoors
- Operating Temperature: –20℃~60℃

TS–8310B TS–8310G

## TS-8310B / TS-8310G

### Features

- 50 selectable UHF frequencies and a state of the art true diversity circuit ensure interference–free reception
- Microphone synchronization via infrared data transmission
- High quality sound
- "Lock key" function disables the receiver controls to prevent unintended change of settings
- Rugged metal housing construction
- Color LC–displays
- Two housing color–optional

### Application

- Motional sound source recording and amplifying, for live–performances, conference, house of worship, musical and opera

### Specification

- Frequency Range: 680MHz–809MHz
- Number of Channels: Single channel
- Number of Frequencies: 50 frequencies to be selected
- Frequency Response: 50Hz–18kHz
- Frequency Spacing: 250kHz
- Frequency Steadiness: ±0.005%
- Transmitter Frequency Control: Automatic tracing
- Max. Frequency Deviation: ±48kHz
- S/N Ratio: >85dB
- Total Harmonic Distortion: ≤0.5% (at 1kHz)
- Transmit Power: ≤10mW
- Receiver Power Supply: DC 12–15V/1A, external
- Transmitter power supply: 3V (2pcs 1.5V battery)
- Output Type: XLR (balanced) and Φ6.3mm phone jack (unbalanced)





TS–7310H TS–7310P

## TS-7310P / TS-7310H

### Features

- UHF transmission and diversity wireless receiving technique features stable and high interference–free performance
- PLL digital frequency control system provides 4 selectable frequencies
- Powered by 2pcs 1.5V batteries
- LCD on body pack transmitter indicates frequency and battery power status
- MINI XLR audio input connector on body–pack transmitter for convenient connection
- XLR 3–pin balanced and unbalanced Φ6.3mm phone jack outputs
- Four–segment RF–level LED display and AF–level LED display
- Squelch and volume level controls
- Operating range up to 80m

### Application

- Stage performance, celebration, conference, karaoke, home entertainment

### Specification

- Frequency Range: 740MHz–790MHz
- Frequency Control: PLL
- Frequency Steadiness: ±0.005%
- Modulation Mode: FM
- Channels: 4 selectable channels
- Receiving Mode: diversity
- Frequency Response: 60Hz–15kHz
- Max. Frequency Deviation: ±45kHz
- S/N Ratio: >80dB
- THD:<0.5%
- Receiving Sensitivity: –80dBm
- Dynamic Range: >100dB
- Audio Outputs: balanced 3–pin XLR; unbalanced Φ6.3mm jack
- Transmit Power: <10mW
- Transmitter Power Supply: 3V(2pcs 1.5V battery)
- Transmitter Battery Playtime: approx.10hrs(depending on the battery)
- Operating Range: 80m outdoors
- Operating Temperature: –20℃~60℃


## TS-2200

### Features

- VHF frequency band for interference–free reception
- Hi–frequency with narrow–band and mid–frequency with selection filter, clear up interference of the hash
- ALC circuitry avoids distortion even the volume output is high
- LED power indicator for low battery power warning on handheld microphone
- Transmitter features switching noise shock wave elimination circuit
- Pure Quartz Oscillation circuit for stable frequency performance
- Audio companding technique reduces the noise and increases the dynamic range
- Acoustic feedback rejection circuitry effectively reduces the howling
- Mixed output (6.3mm) for convenient connection with mixer console or karaoke amplifier

### Application

- Public speech, karaoke

### Specification

- Squelch Control: Noise lock
- Frequency Deviation: ±15KHz
- Frequency Response: 60HZ–15KHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >80dB
- Total Harmonic Distortion: <0.5% (1KHz)
- Number of Channels: 2 Channels
- Sensitivity: –80dBm
- Operating Range: 35m
- Receiver Power Supply: External DC 12V/300mA
- Transmitter Power Supply: 9V battery
- Transmit Power: <10mW
- Frequency Range: 220MHz–270MHz
- Output Type: Mixed output






## TS-3360

### Features

- VHF frequency band for interference–free reception
- Hi–frequency with narrow–band and mid–frequency with selection filter, clear up interference of the hash
- ALC circuitry avoids distortion even the volume output is high
- LED power indicator for low battery power warning on handheld microphone
- Transmitter features switching noise shock wave elimination circuit
- Pure Quartz Oscillation circuit for stable frequency performance
- Audio companding technique reduces the noise and increases the dynamic range
- Acoustic feedback rejection circuitry effectively reduces the howling
- Mixed output (6.3mm) for convenient connection with mixer console or karaoke amplifier

### Application

- Public speech, karaoke

### Specification

- Squelch Control: Noise lock
- Frequency Deviation: ±18kHz
- Frequency Response: 80Hz–15KHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >70dB
- Total Harmonic Distortion: <0.5% (1KHz)
- Number of Channels: 2
- Sensitivity: –80dBm
- Operating Range: 35m
- Receiver Power Supply: External DC 12V/300mA
- Transmit Power Supply: 2pcs of 1.5V AA batteries
- Transmit Power: <10mW
- Frequency Range: 220MHz–270MHz
- Output Type: Mixed output (6.3mm)


TC–TL


TC–TD

TC–TH


TC–2R


TC–4R

## TC-2R / TC-4R

### Features

- TC–2R VHF dual channel wireless microphone
- The high quality dynamic capsule and circuit connection features excellent sound quality
- TC–4R: Supplied with one receiver and four transmitters
- TC–2R: 50–80m operating area
- TC–4R: 50m operating area
- Selected VHF frequency to avoid interference
- Feedback rejection function can effectively reduce howling
- Optional mixed or individual output to connect with any mixer / amplifier
- The receiver can be used together with handheld mic TC–TD, body–pack TC–TL or conference mic TC–TH at the same time
- Easy recognization by different color for each frequency

### Application

- Handheld mic: KTV, program hosting, outdoor activities
- Body–pack mic: Broadcasting, program hosting, outdoor activities
- Conference mic: Conference, lecture

### Specification

- Squelch Control: Noise–Lock
- Frequency Deviation: ± 18kHz
- Frequency Response: 80Hz–15kHz
- Frequency Steadiness: ± 0.005%
- S/N Ratio: > 70dB
- Total Harmonic Distortion: < 0.5% (at 1kHz)
- Number of Channels: 4 channels TC–4R 2 channels TC–2R
- Sensitivity: –80dBm
- TC–4R: 50m in open area
- TC–2R: 50–80m in open area
- Harmonic Interference Rate: ⩾50dB
- False Image Interference Rate: ⩾80dB
- Receiver Power Supply: TC–4R: DC 12V/500mA
  TC–2R: DC 12V/300mA
- Transmitter Power Supply: 9V Battery (TC–TD)
  AA1.5V X 2 batteries (TC–TL)
  AAA1.5V X 2 batteries (TC–TH)
- Transmit Power: < 10mW

**Color for Frequencies**

| | | |
|---|---|---|
| Orange: 268.9MHz | Blue: 240.9MHz | Red: 250.3MHz |
| Green: 221.3MHz | Grey: 266.6MHz | Yellow: 238.8MHz |
| Purple: 188.6MHz | Khaki: 220.6MHz | |

- Output Type: Separate or mixed output






## TS-7200

### Features

- VHF wireless system features high sound quality, good resistance against interference and stable signal reception
- Long operating distance up to 140 meters
- Squelch control for eliminating RF interference and switching noise
- Individual and mixed unbalanced audio output for convenient connection with audio equipment
- LED status indicator on both transmitters and receivers

### Application

- Campus conference, outdoor activity and stage performance

### Specification

- Squelch Control: Noise Lock
- Max. Frequency Deviation: ± 18kHz
- Frequency Response: 80Hz–15kHz
- Frequency Steadiness: ± 0.005%
- S/N Ratio: >70dB
- Total Harmonic Distortion: <0.5% (1kHz)
- Number of Channels: 2 Channels
- Receiving Sensitivity: –80dBm
- Operating Range: About 140m
- Harmonic Interference Rate: ⩾50dB
- False Image Interference Rate: ⩾80dB
- Receiver Power Supply: DC 12V/300mA
- Transmitter Power Supply: 9V Battery
- Transmit Power: < 10mW
- Carrier Frequency: VHF–H
- Output Type: Separate or Mixed Output

## TS-6720

### Features

- VHF frequency band (220–270MHZ) for interference–free reception
- Multilevel high frequency and mid frequency narrowband filter for minimum signal interference
- Unique ALC circuitry for avoiding distortion from high volume
- LED power indicator for low battery warning on handheld microphone
- Circuit controlled switching noise elimination
- Pure Quartz Oscillation circuit for stable frequency
- Audio companding technique for reducing the noise and increasing the dynamic range
- Effective feedback control circuitry
- Separated or mixed output

### Application

- Karaoke engineering installation, motional sound source recording and amplifying, live–performances, conference, house of worship, musical and opera

### Specification

- Squelch Control: Noise Lock
- Frequency Deviation: ± 15kHz
- Frequency Response: 60Hz–15kHz
- Frequency Steadiness: ± 0.005%
- S/N Ratio: > 80dB
- Total Harmonic Distortion: < 0.5% (at 1kHz)
- Number of Channels: 2 channels
- Sensitivity: –80dBm
- Operating Range: 50 meters
- Receiver Power Supply: DC 12V/300mA
- Transmitter Power Supply: 2pcs of 1.5V AA batteries
- Transmit Power: < 10mW
- Frequency Range: 220MHz–270MHz
- Output Type: Independent or mixed output





TS–6700PP


TS–6700HH

## TS-6700

### Features

- VHF wireless microphone
- 50m operating distance
- Pure quartz oscillation circuit guarantees stable performance
- Circuit controlled switching noise elimination
- ALC for low distortion, audio companding technology for low noise and wide dynamic range
- Effective feedback control circuitry
- Low power consumption
- LED status indicator on both transmitters and receiver
- Separate or mixed output

### Application

- Motional sound source recording and amplifying, live–performances, conference, house of worship, musical and opera

### Specification

- Squelch Control: Noise–Lock
- Frequency Deviation: ± 15kHz
- Frequency Response: 60Hz–15kHz
- Frequency Steadiness: ± 0.005%
- S/N Ratio: > 80dB
- Total Harmonic Distortion: < 0.5% (1kHz)
- Number of Channels: 2 channels
- Receiving Sensitivity: –80dBm
- Operating Range: 50m in open area (TS–6700HH)
  30m in open area (TS–6700PP)
- Receiver Power Supply: DC 12V/ 300mA, external
- Transmitter Power Supply: 9V battery (TS–6700HH )
  AA1.5V × 2 batteries(TS–6700PP)
- Transmit Power: < 10mW
- Frequency Range: 220MHz–270MHz
- Output Type: Separate or mixed output

## TS-6320

### Features
- VHF wireless system
- Adjustable operating range for best sound performance
- Effective feedback control circuitry
- Low power consumption
- Skid resistant headcase design

### Application
- Motional sound source recording and amplifying, for live-performances, conference, house of worship, musical and opera

### Specification
- Frequency Range: 220MHz-270MHz
- Number of Channels: 2 Channels
- Frequency Response: 80Hz-15kHz
- Max. Frequency Deviation: ±20kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >80dB
- Total Harmonic Distortion: ≤0.5% (at 1kHz)
- Transmit Power: ≤10mW
- Receiver Power Supply: DC 12V/300mA, External
- Transmitter Power Supply: 9V layer-built Battery
- Output Type: Separate or Mixed Output

## TS-6800

### Features
- VHF wireless system
- Handheld microphone transmitter featuring recharging function
- Supplied with RoHS Ni-MH batteries for recycle using
- Steady performance
- Clear vocal reproduction
- Professional design

### Application
- Motional sound source recording and amplifying, for live-performances, conference, house of worship, musical and opera

### Specification
- Frequency Range: 220MHz-270MHz
- Number of Channels: 2 Channels
- Frequency Response: 60Hz-15kHz
- Max. Frequency Deviation: ±15kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >80dB
- Total Harmonic Distortion: ≤0.5% (at 1kHz)
- Transmit Power: ≤10mW
- Receiver Power Supply: DC 12V/300mA, External
- Transmitter Power Supply: 9V layer-built Battery
- Recharger Power Supply: DC 12V/300mA External
- Recharging Period: 10-12hrs
- Output Type: Separate or Mixed Output





## TS-6310HH

### Features
- VHF frequency band and 42 frequency groups for interference-free reception
- Multilevel hign frequency and mid frequency narrowband filter for minimum signal interference
- Unique ALC circuitry for avoiding distortion when volume is high
- Pure quartz oscillator circuitry for stable frequency
- Audio companding technique for reducing the nosie and enlarging the dynamic range
- Effective feedback control circuitry
- Low power consumption design
- LED power indicator for low battery warining on handheld microphone transmitter
- Circuit controlled switching nosie elimination
- Separate or mixed output
- Rugged and durable handheld microphone design

### Application
- Karaoke engineering installation, Motional sound source recording and amplifying, live-performances, conference, house of worship, musical and opera

### Specification
- Squelch Control: Noise Lock
- Frequency Deviation: ±18kHz
- Frequency Response: 80Hz-15kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >70dB
- Total Harmonic Distortion: 0.5% (1kHz)
- Number of Channels: 2 channels
- Receiving Sensitivity: -80dBm
- Operating Range: 50m in open area
- Resonance Interference Rate: ⩾50dB
- False Image Interference Rate: ⩾80dB
- Receiver Power Supply: DC 12V/300mA
- Transmitter Power Supply: 9V battery
- Transmit Power: +10dBm
- Carrier Frequency Band: VHF-H
- Output Type: Separate or mixed output

## TS-331

### Features
- VHF wireless system
- Effective feedback control circuitry
- Electronic on/off switching noise suppression
- Low power consumption

### Application
- Motional sound source recording and amplifying, for live-performances, conference, ouse of worship, musical and opera

### Specification
- Frequency Range: 220MHz-270MHz
- Number of Channels: Single Channel
- Frequency Response: 60Hz-13kHz
- Max. Frequency Deviation: ±15kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: >70dB
- Total Harmonic Distortion: ≤0.5% (at 1kHz)
- Transmit Power: ≤10mW
- Receiver Power Supply: DC 9V/300mA, External
- Transmitter Power Supply: 9V layer-built Battery
- Output Type: Separate or Mixed Output

TS-331P

TS-331H

• VHF Wireless Microphone

TS–3310PP

TS–3310HH

## TS–3310

### Features

- VHF frequency band and 42 frequency groups for interference–free reception
- Multilevel hign frequency and mid frequency narrowband filter for minimum signal interference
- Unique ALC circuitry for avoiding distortion from high volume
- Pure Quartz Oscillation circuit for stable frequency
- Audio companding technique for reducing the nosie and increasing the dynamic range
- Effective feedback control circuitry
- Low power consumption design
- LED power indicator for low battery warning on handheld microphone transmitter
- Circuit controlled switching nosie elimination
- Independent unbalanced and mixed outputs
- Rugged and durable handheld microphone design

### Application

- Motional sound source recording and amplifying, live–performances, conference, house of worship, musical and opera

### Specification

- Frequency Band: VHF–H
- Frequency Response: 80Hz–15kHz
- Frequency Steadiness: ±0.005%
- S/N Ratio: ＞70dB
- Total Harmonic Distortion: ＜0.5% (1kHz)
- Number of Channels: 2 channels
- Operating Range: 50m in open area

**Receiver**

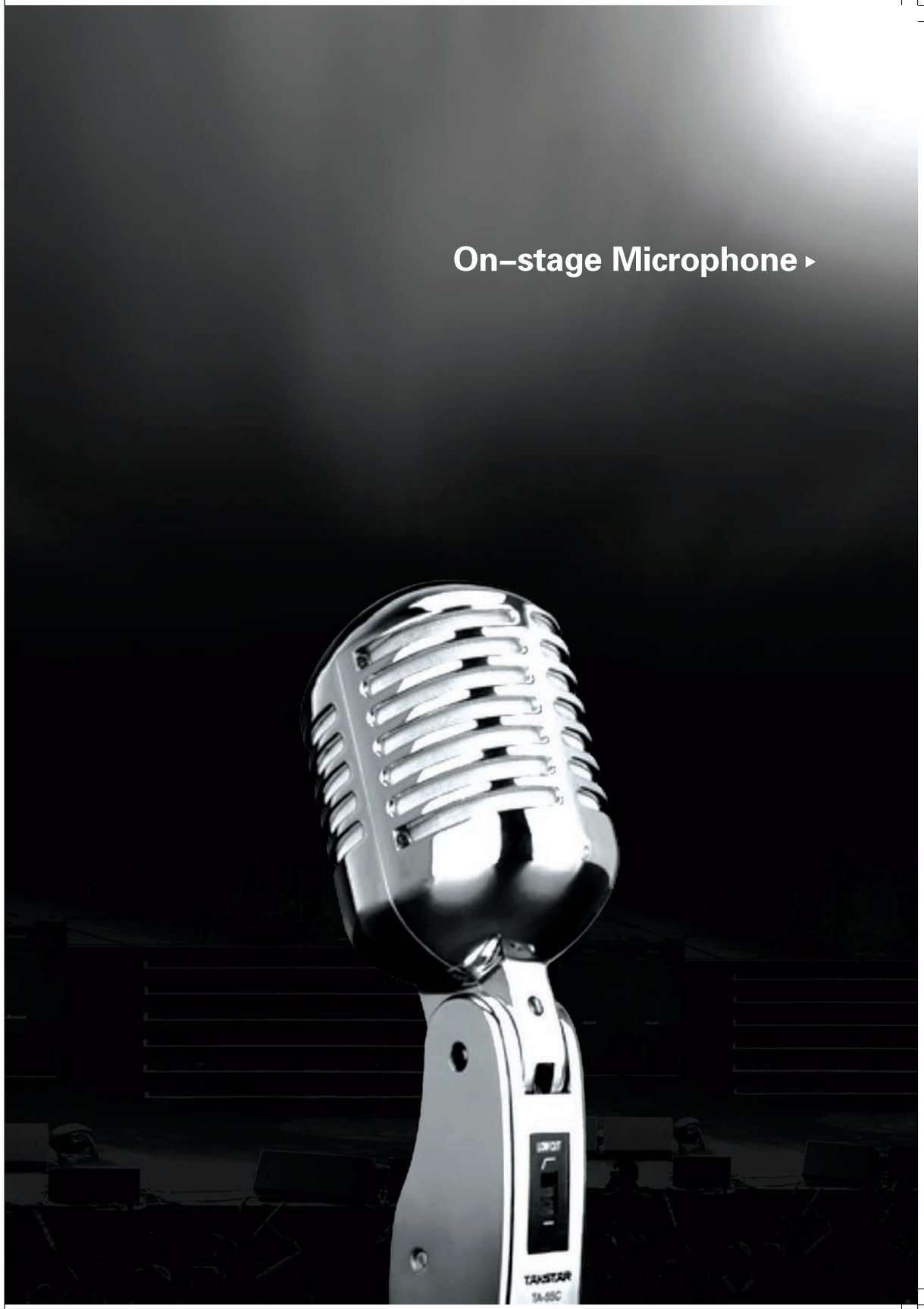
- Squelch Control: Noise–Lock
- Receiving Sensitivity: –80dBm
- False Image Interference Rate: ≥80dB
- Receiver Power Supple: DC 12V/300mA
- Output Type: Separate or mixed output

**Transmitter**

- Frequency Deviation: ± 18kHz
- Frequency Steadiness: ±0.005%
- Modulation Mode: FM
- Transmit Power: ≤10mW
- Transmitter Power Supply: 9V layer–built battery for handheld microphones
  AA1.5V × 2 for body–pack transmitters





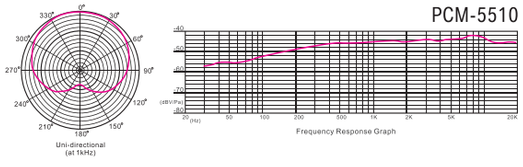


## PCM–5510

### Features
- Back electret condenser transducer
- High sensitivity and clear sound reproduction
- Smooth frequency response range
- Rugged and durable construction
- On/off magnetic–reed switch with lock function for on–stage control
- Unique structure to avoid rolling when laid flat

### Application
- On–stage performance, piano, strings

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –42dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 1000Ω ± 30% (at 1kHz)
- Max. Input SPL: 136dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 1.5V AA Battery
- Net Weight: 282g

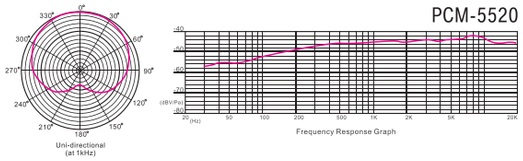




## PCM–5520

### Features
- Back electret condenser transducer
- High sensitivity and clear sound reproduction
- Smooth frequency response range
- Rugged and durable construction
- On/off magnetic–reed switch with lock function for on–stage control

### Application
- On–stage performance, piano, strings

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–18kHz
- Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 1000Ω ± 30% (at 1kHz)
- Max. Input SPL: 136dB (THD ⩽1.0% at 1kHz)
- Power Requirement: 1.5V AA Battery
- Net Weight: 258g



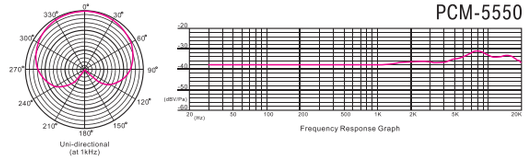



## PCM–5550

### Features
- Excellent audio processing circuitry features natural and smooth sound
- High sensitivity and low output impedance guarantee unrivaled recording performance
- Built–in windscreen minimizes plosives and wind noise
- Supplied with 1.5V AA batteries, playtime is up to 15 days
- Stylish ivory outlook

### Application
- Internet karaoke, PC recording, etc.

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardoid
- Sensitivity: –38 ± 3dB
- Frequency Response: 30Hz–20kHz
- Equivalent Noise Level: ⩽22dB(IEC 581–5)
- Max.Input SPL: 125dB(at 1kHz 0dB THD⩽1%)
- Output Impedance: 350Ω ± 30%
- Load Impedance: ⩾1000Ω
- Power Requirement: 1.5V AA batteries
- Net Weight: 300g

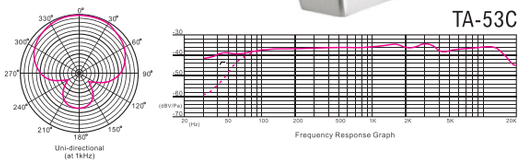




## TA–53C

### Features
- Unique design
- Back electret condenser transducer
- Smooth frequency response range
- Bass roll–off switch to eliminate unwanted noise
- LED power indicator
- Rugged and durable construction
- Designed with 5/8" standard thread at the tail

### Application
- On–stage performance, percussion amplification

### Specification
- Transducer Principle: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz–18kHz
- Sensitivity: –36dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Load Impedance: ⩾1000Ω
- Equivalent Noise Level: ⩽22dB A (IEC 581–5)
- Max. Input SPL: 127dB (THD ⩽1.0% at 1kHz)
- Bass Filter: 12dB/octave at 100Hz
- Power Requirement: 48V DC Phantom Power
- Net Weight: 650g

## TA-55C

### Features

- Advanced audio circuit for low distortion and low noise
- High sensitivity and wide frequency response for effective natural sound reproduction
- Gold–plated diaphragm condenser capsule features clear sound quality and high resolution
- Nice nickel–plated finish for high oxidation resistance
- Built–in high–pass filter switch can effectively minimize the low frequency noise such as vibration and wind noise

### Application

- Audio processing, recording

### Specification

- Element: Back Electret Condenser
- Directivity Characteristic: Cardioid
- Frequency Response: 30Hz—20KHz
- Sensitivity: –34 ± 3dB(0dB=1V/Pa at 1kHz)
- Equivalent Noise Level: ≤24dB
- Max. Input SPL: ≥130dB
- Output Impedance: 100Ω ± 30% (at 1kHz)
- Power Requirement: 48V Phantom Power Supply





## PCM-5560

### Features

- Unique outlook design with multiple optional colors, perfect combination of profession and fashion
- High efficiency electro–acoustic conversion technology ensures natural and clear sound reproduction
- 3–step sensitivity adjustment switch for different application
- High sensitivity and low impedance design perfectly matches the computer integrated sound card or external sound card connection
- Built–in filter windscreen effectively eliminate unwanted noise such as breathing or wind noise
- Provided with C2–1 special conversion cable for convenient mobile phone karaoke and better sound performance
- Powered by 1pc 1.5V AA battery, long operating time up to 15 days

### Application

- Home entertainment, mobile phone karaoke, network karaoke, PC recording, instrument recording

### Specification

- Transducer Principle: Back electret condenser
- Polar Pattern: Cardioid
- Frequency Response: 30Hz–20KHz
- –10dB(for home entertainment):
  Sensitivity: –52dB ± 3dB (0dB=1V/Pa at 1KHz)
  Equivalent Noise Level: ≤32dB(IEC 581–5)
  Max. Input SPL: 138dB(THD≤1% at 1KHz)
- 0dB(for mobile phone karaoke, network karaoke):
  Sensitivity: –42dB ± 3dB (0dB=1V/Pa at 1KHz)
  Equivalent Noise Level ≤22dB(IEC 581–5)
  Max. Input SPL: 128dB(THD≤1% at 1KHz)
- +10dB(for network karaoke):
  Sensitivity: –32dB ± 3dB(0dB=1V/Pa at 1KHz)
  Equivalent Noise Level≤18dB(IEC 581–5)
  Max. Input SPL: 118dB(THD≤1% at 1KHz)
- Output Impedance: 350Ω ± 30%
- Load Impedance: ≥1000Ω
- Power Requirement: 1pc 1.5V AA battery

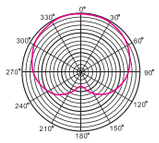

Light Blue　Light Green　Bright Red　Yellow

## TA-58

### Features
- High directivity
- Clear and bright vocal reproduction
- Rugged metal construction
- On/off magnetic–reed switch for on–stage control

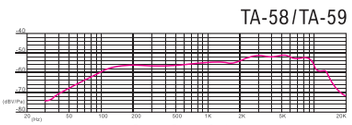
### Application
- Vocal, cymbal and percussion amplification

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –55dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 400Ω ± 30% (at 1kHz)
- Net Weight: 320g




Uni–directional
(at 1kHz)

TA-58/TA-59




Frequency Response Graph

## TA-59

### Features
- Distinct and lifelike sound reproduction
- Cardioid directivity characteristic ensures maximum gain
- Rugged and durable metal construction
- Anti–skid headcase design
- Effective, built–in wind and breath "pop" noise filter
- On/off magnetic switch for on–stage control

### Application
- Vocal, karaoke, live performance

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –55dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 400Ω ± 30% (at 1kHz)
- Net Weight: 398g



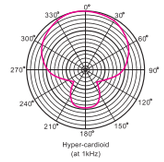


## TA-54D

### Features
- Wide dynamic range and distinct sound reproduction
- Hyper–cardioid directivity characteristic ensures maximum gain and eliminates background noise
- Rugged and durable metal construction
- Effective, built–in wind and breath "pop" noise filter
- On/off magnetic–reed switch for eliminating switching noise

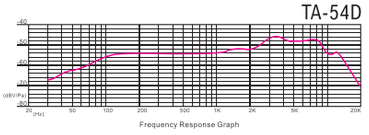
### Application
- Stage performance

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Hyper–cardioid
- Frequency Response: 60Hz–16kHz
- Sensitivity: –54dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 250Ω ± 30% (at 1kHz)
- Net Weight: 655g




Hyper–cardioid
(at 1kHz)

TA-54D




Frequency Response Graph

## TA-55D

### Features
- High quality dynamic capsule features wide frequency response range and clear sound reproduction
- Uni–directional characteristic ensures maximum gain and eliminates background noise
- Nice nickel–plated finish for high oxidation resistance
- Effective, built–in wind and breath noise filter design
- On/off magnetic–reed switch for eliminating switching noise

### Application
- Stage performance, karaoke

### Specification
- Element: Dynamic
- Directivity Characteristic: Hyper–cardioid
- Frequency Response: 60Hz–16kHz
- Sensitivity: –52dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)

## DM-1200

### Features
- High sound pressure handling capability
- Clear sound reproduction for live application
- Rugged and durable metal construction
- On/off magnetic-reed switch for on-stage control

### Application
- On-stage performance, karaoke, outdoor activities

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz-16kHz
- Sensitivity: -51dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)

## DM-2008

### Features
- High sensitivity and low distortion
- Excellent frequency response range
- Rugged and durable metal construction
- On/off magnetic-reed switch for on-stage control

### Application
- On-stage performance, karaoke, outdoor activities

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 40Hz-16kHz
- Sensitivity: -52dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)

KM-654

## KM-654 / KM-655

### Features
- Smooth frequency response with natural vocal pickup
- Rugged and durable metal housing (KM-654)/Plastic housing(KM-655)
- Unique anti-slide design
- On/off switch for ease of operation

### Application
- On-stage performance, karaoke, home entertainment

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 40Hz-15kHz
- Sensitivity: -54dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 500Ω ± 30% (at 1kHz)

KM-655





## KM-663

### Features
- Rugged and durable metal housing
- Unique anti-slide housing
- Excellent sound reproduction
- Non-detachable cable
- Stylish outlook design

### Application
- On-stage performance, karaoke and home entertainment

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz-18kHz
- Output Impedance: 600Ω ± 30% (at 1kHz)
- Sensitivity: -50dB ± 3dB (0dB=1V/Pa at 1kHz)

## KM-662

### Features
- Rugged and durable metal housing with electroplated surface finish
- Unique anti-slide housing
- Distinct middle frequencies and gentle high frequency reproduction
- Non-detachable cable

### Application
- On-stage performance, karaoke and home entertainment

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz-15kHz
- Output impedence: 600Ω ± 30% (at 1kHz)
- Sensitivity: -51dB ± 3dB (0dB=1V/Pa at 1kHz)

## KM-661

### Features
- Punchy bass, rich middle and distinct high frequency response
- Wide and flat frequency response with high sensitivity
- Rugged, electro-plated housing and heat-treated mesh for maximum stability
- On/off switch for ease of operation

### Application
- On-stage performance, karaoke, home entertainment

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 80Hz-11kHz
- Sensitivity: -54dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 500Ω ± 30% (at 1kHz)

## DM–2100

### Features
- Powerful sound with exquisite highs
- Excellent performance even at harsh climate conditions
- Unique structure to avoid rolling when laid flat
- Rugged and durable metal construction
- On/off magnetic–reed switch for on–stage control

### Application
- On–stage performance, karaoke, outdoor activities

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 40Hz–16kHz
- Sensitivity: –52dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)

## DM–2200

### Features
- Detachable capsule for flexible replacement
- On/off switch for ease of operating

### Application
- On–stage performance, karaoke, outdoor activities

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 50Hz–16kHz
- Sensitivity: –52dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)

## DM–2300

### Features
- High sound pressure handling capability
- Clear sound reproduction for live application
- Anti–slide mesh ring
- On/off switch for ease of operating

### Application
- On–stage performance, karaoke, outdoor activities

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 60Hz–18kHz
- Sensitivity: –50dB ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedance: 600Ω ± 30% (at 1kHz)





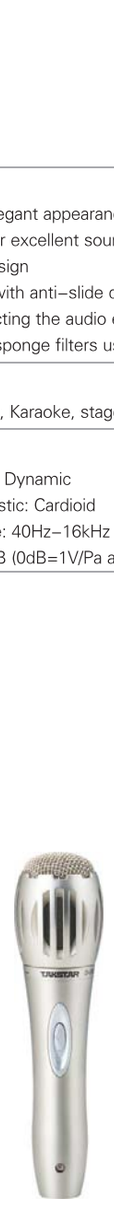
## K20

### Features
- UV paint finish for elegant appearance, well scratch resistance
- Cardioid directivity for excellent sound capturing and effective feedback reduction
- Unique anti–slide design
- Ship–shape switch with anti–slide design for good handle, effective on/off noise elimination for protecting the audio equipments
- Internal high quality sponge filters useless signal and protects the capsule

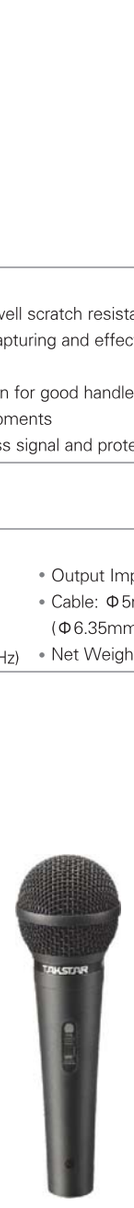
### Application
- Home entertainment, Karaoke, stage

### Specification
- Transducer Principle: Dynamic
- Directivity Characteristic: Cardioid
- Frequency Response: 40Hz–16kHz
- Sensitivity: –52 ± 3dB (0dB=1V/Pa at 1kHz)
- Output Impedence: 600Ω ± 30% (at 1kHz)
- Cable: Φ5mm x 4m single core (Φ6.35mm nickel–plating plug + female connector)
- Net Weight: 250g

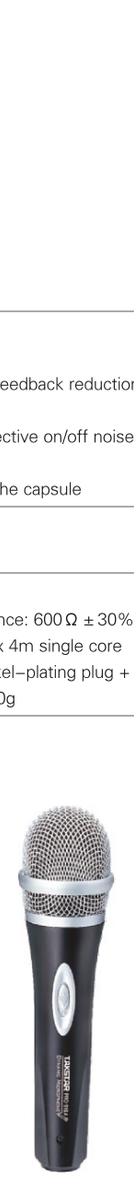
DM–604



D–518



DM–38PRO



PRO–918A



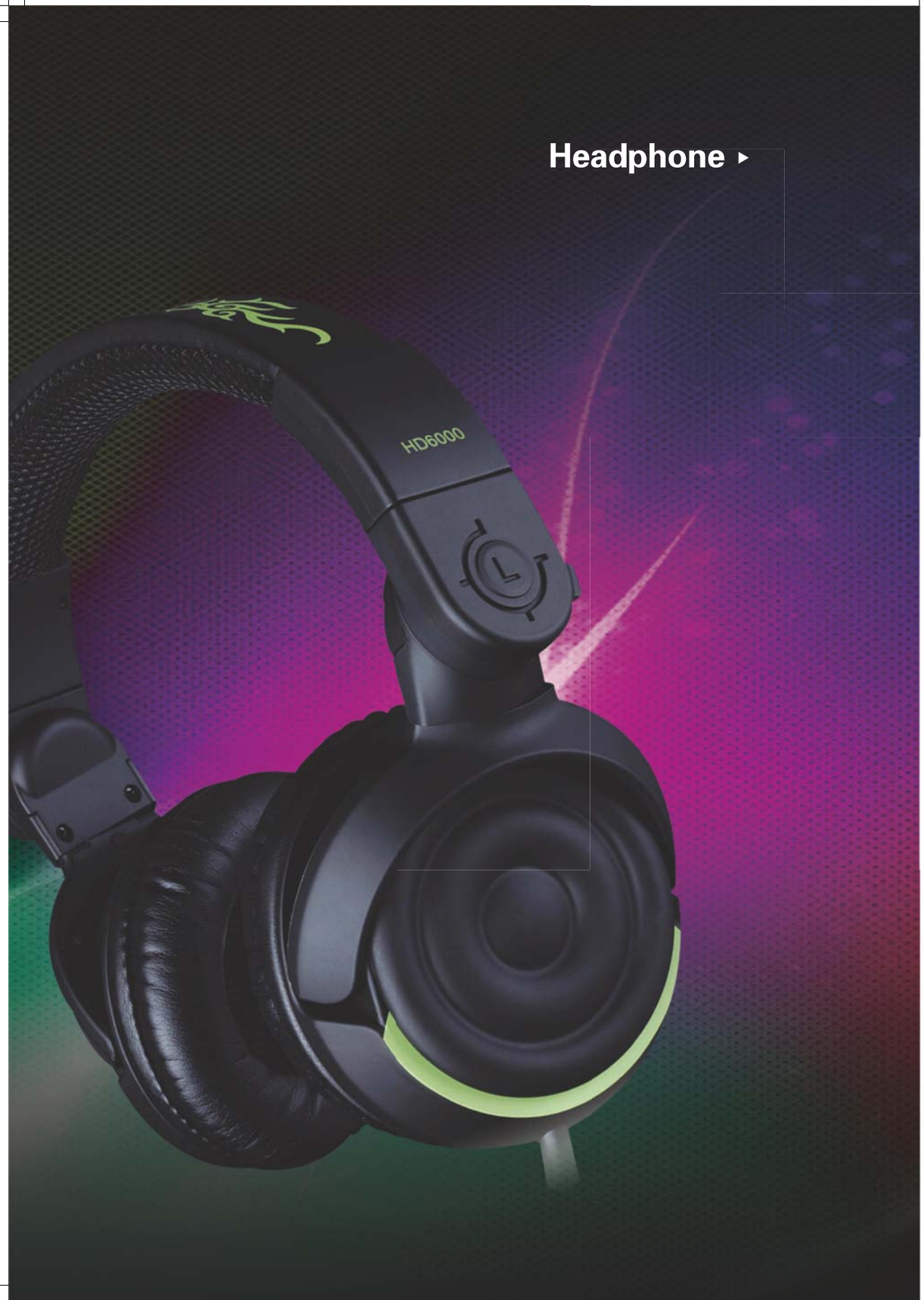
PRO–42

E–350



E–340

# Headphone ▸




• Wireless Headphone

## WHF–875

### Features

- Squelch control circuitry
- Adjustable frequency range for interference prevention
- Built–in antenna
- Multiple sets of headphones can operate with a single transmitter

### Application

- TV, theater, multi–media education

### Specification

- Carrier Frequency: 113.6MHz–117.4MHz
- Modulation Mode: FM
- Frequency Response: 70Hz–10kHz
- S/N Ratio: ＞28dB (at 1kHz)
- Total Harmonic Distortion: ＜1%
- Transmit Power: ≤10mW
- Max. Input Level: virtual value 500mV (1kHz sine wave)
- Transmitter Power Supply: DC 12V/300mA
- Receiver Power Supply: 2pcs 1.5V AAA battery

• HI–FI Headphone

## HI 2050

### Features

- The exquisite headphone cavity expands the sound field depth and features precise sound localization
- Full–bodied bass, clear mids and highs
- High protein leather headband, flexible and light aluminum–alloy bracket for comfortable wearing
- Soft velure ear pads with large inner space for longtime listening
- OFC, 2.2m single–side cable with 1.8m extention cable meet the home theatre and other requirement

### Application

- Home theater, opera house, cinema, concert hall, music entertainment

### Specification

- Type: Wired, open design
- Transducer Principle: Dynamic
- Wearing Style: Headworn
- Frequency Response: 15Hz–25KHz
- Sensitivity: 92dB ± 3dB
- Driver Diameter: Φ53mm
- Max. Input Power: 500mW
- Rated Power: 250mW
- Impedance: 60Ω
- Connector: Stereo Φ3.5mm + Φ6.3mm gold plated
- Cable: Φ4mm x 2.2m + 1.8m extension cable
- Net Weight: 325g

## HI 2500

### Features
- Large ΦΦ50mm NdFeB driver features wide frequency response range
- Detailed sound reproduction, clear highs, precise mids and natural bass
- High grade memory cushion headband assures longtime wearing comfort
- Full open design features more space perception
- High density slow recovery sponge velour ear pads for comfortable wearing
- Ergonomic design fits different head shape
- Detachable cable design for convenient carrying
- Designed with line control and microphone for mobile phone communication and music play of Apple devices (iPod, iPad, iphone)

### Application
- iPad Air, iPad mini with Retina display, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad(4th generation), iPad(3rd generation), iPad 2, iPad mini, iPod shuffle(4th generation), iPod touch(5th generation), iPod touch(4th generation), iPod nano(7th generation), iPod nano(6th generation)

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 32Ω ± 30%
- Frequency Response: 10Hz~20KHz
- Sensitivity: 95 ± 3dB at 1KHz
- Max. Input Power: 100mW
- Rated Power: 50mW
- Microphone Cable: Φ4mm x 1.2m
- Straight Cable: Φ4mm x 4m
- Connector: Gold–plated stereo Φ3.5mm+ Gold–plated stereo Φ6.3mm
- Net Weight: 266.5g(without cable)

## TS–671

### Features
- Large diameter and high impedance driver ensuring optimum sound reproduction
- Full–open design provides natural, well–balanced sound
- Wide dynamic range and high sound quality meet the demands of audiophile listeners
- Circumaural design for long time wearing comfort

### Application
- CD, MP3, computer games, TV

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ53mm
- Impedance: 120Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 500mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ6.3mm + Φ3.5mm





## TS–662

### Features
- Full–open design provides natural, well–balanced sound
- Wide dynamic range and high sound quality meet the demands of audiophile listeners
- Adjustable headband design
- Cloth ear pads for long time wearing comfort

### Application
- CD, MP3, computer games and TV

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ53mm
- Impedance: 60Ω
- Sensitivity: 99dB ± 3 dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 500mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ6.3mm + Φ3.5mm



## HD 5800

### Features
- Large ΦΦ50mm NdFeB driver features wide frequency response and wide dynamic sound performance
- Adopts "Sound diffuser" technology to enhance the treble extensibility and broaden the sound field
- Closed design ensures excellent ambient noise attenuation
- Soft, high protein leather ear pads for longtime comfortable wearing
- Ergonomic design fits different head shape
- Headphone foldable design and detachable cable design for convenient carrying
- 180° outward swivelling ear cup enables single side monitoring
- Designed with line control and microphone for mobile phone communication and music play of Apple devices (iPod, iPad, iphone)

### Application
- iPad Air, iPad mini with Retina display, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad(4th generation), iPad(3rd generation), iPad 2, iPad mini, iPod shuffle(4th generation), iPod touch(5th generation), iPod touch(4th generation), iPod nano(7th generation), iPod nano(6th generation)

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 42Ω ± 30%
- Frequency Response: 10Hz~20KHz
- Sensitivity: 100 ± 3dB at 1KHz
- Max. Input Power: 1000mW
- Rated Power: 500mW
- Microphone Cable: Φ4mm x 1.2m
- Straight Cable: Φ4mm x 4m
- Connector: Gold–plated stereo Φ3.5mm+ Gold–plated stereo Φ6.3mm
- Net Weight: 300g(without cable)

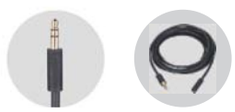
## HD 6000

### Features

- Clear highs and punchy bass
- Closed design effectively isolates the ambient noise
- Human engineering design for more comfortable wearing
- Swivel earcup design for convenient single–side monitoring and carrying
- Fashionable outlook design, 2 optional colors (black and coffee)

### Specification

- Product Type: Dynamic Stereo Headphone
- Driver Diameter: Φ53mm
- Impedance: 60Ω ± 30%
- Frequency Response: 10Hz~25KHz
- Sensitivity: 100 ± 3dB at 1kHz
- Max. Power: 500mW
- Rated Power: 250mW
- Cable: Φ4mm × 1.2m+4m extension cable
- Connecting Plug: Gold–plated stereo Φ3.5mm+6.3mm
- Net Weight: 320g
- Color: Black / Coffee





## PRO 80

### Features

- Precise and natural sound reproduction, specially designed for audio mixing monitoring
- High quality PET diaphragm features brilliant wide highs and rich sound
- Closed–back design incorporating double noise rejection technology effectively reduce the ambient noise
- High protein leather headband and ear pads assures long time wearing comfort
- Stylish outlook design

### Application

- Professional audio mixing monitor, foldback monitor

### Specification

- Transducer Principle: Dynamic
- Driver Diameter: Φ53mm
- Impedance: 60Ω
- Sensitivity: 101 ± 3dB
- Frequency Response: 15Hz–25KHz
- Rated Power: 250mW
- Max. Input Power: 500mW
- Cable: Φ4 x 2.2m black straight cable
- Connector: Stereo Φ3.5mm + Φ6.3mm gold–plated plug
- Net weight: 340g






## HD 2000

### Features

- Noble UV painting finish
- Soft, high protein leather ear pads for comfortable wearing
- Swivel earcup design for 25 right or left swivel for different face shape, 180° outward swivel for single hand monitoring
- Adjustable headband allows you to extend or shorten the length by 35mm

### Application

- Audio mixing, recording studio monitoring

### Specification

- Type: Wired, closed design
- Transducer Principle: Dynamic
- Wearing Style: Headworn
- Frequency Response: 10Hz–25kHz
- Sensitivity: 101dB ± 3dB at 1kHz
- Driver Diameter: Φ50mm
- Max. Input Power: 100mW
- Rated Power: 30mW
- Impedance: 32Ω
- Connector: Stereo Φ3.5mm + Φ6.3 gold plated
- Cable: Φ2.2mm x 2m, Y–type
- Net Weight: 200g

## TS–670

### Features

- Soft skin ear pads for excellent ambient noise attenuation
- Light headband for wearing comfort
- Smooth, natural sound and high sensitivity
- Wide dynamic range and high sound quality meet the demands of recording monitoring

### Application

- Audio mixing, recording studio monitoring

### Specification

- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 45Ω
- Sensitivity: 98dB ± 3dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 2000mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

## TS-660

### Features
- Elegant and noble
- Smooth, natural and exquisite sound quality
- Punchy bass range, precise mids and clear highs
- Large diameter and high impedance driver ensuring wide frequency response and accurate, high SPL
- Exceptional stereo effect and excellent ambient noise reduction
- Soft skin ear pads for long time wearing comfort
- Swiveling earcup enables single–ear monitoring

### Application
- Professional studio mixing monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 45Ω
- Sensitivity: 100dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 2000mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ6.3mm + Φ3.5mm

## TS-650

### Features
- Extremely high power handling capability
- Punchy bass range, well–balanced mids and clear highs
- Unique construction provides perfect fit
- Featherweight solution for long–term wearing comfort
- 90° swiveling earcup
- Folding earcup design for ease of carrying
- Supplied with both soft skin ear pad and cloth ear pad

### Application
- DJ, audio mixing, recording studio monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 45Ω
- Sensitivity: 104dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 2000mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm





## TS-610

### Features
- Adjustable headband
- 90° swiveling earcup
- Featuring natural mids and smooth highs
- Soft skin ear pads for excellent ambient noise attenuation
- Plug–in cable for easy cable replacement

### Application
- DJ, audio mixing, recording studio monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 60Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 1500mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

## TS-600

### Features
- Large diameter driver with neodymium magnet ensuring smooth and wide frequency response and rich sound quality
- Durable headband and soft PU ear pads for long time wearing comfort
- Full size and closed earcup design provides excellent ambient noise reduction
- Swiveling earcup enables single–ear monitoring
- Plug–in cable for easy replacement

### Application
- DJ, audio mixing, recording studio monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 60Ω
- Sensitivity: 99dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 1500mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
  Φ6.3mm gold–plated plug
  Φ4mmx1.2mm straight cable+ Φ3.5mm gold–plated plug

## HD 5500

### Features
- NdFeB Φ50mm driver features wide frequency response and dynamic range
- Punchy bass performance, specially designed for DJ and dance music lover
- Closed design effectively isolates the ambient noise
- Comfortable and sealed ear pads for relieving pressure and minimizing bass sound leakage
- Ergonomic design suits different head shape wearing
- Foldable ear cup and detachable cable design for convenient carrying
- 180° swivel ear cup for one–ear monitoring

### Application
- DJ, foldback monitoring, music entertainment

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 42Ω ±30%
- Frequency Response: 10Hz–20KHz
- Sensitivity: 100 ± 3dB at 1KHz
- Max. Input Power: 2000mW
- Rated Power: 1000mW
- Cable: Φ4mm x 2.2m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm, gold–plated
- Net Weight: 310g


## DJ–520

### Features
- Clear highs and punchy bass
- Durable headband design and soft skin ear pads for long time wearing comfort
- 90° swiveling earcup enables single–ear monitoring
- Closed design provides excellent ambient noise reduction
- Unique folding earcup design for ease of carrying

### Application
- DJ, audio mixing, sound reinforcement monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 42Ω
- Sensitivity: 102dB
- Frequency Range: 20Hz–20kHz
- Power Handling Capability: 2000mW
- Cable: Φ4mm x 1.2m spring cable (full stretch length approx. 4m)
  Φ6.3mm gold–plated plug
  Φ4mmx1.2mm straight cable+ Φ3.5mm gold–plated plug






## ML520

### Features
- Excellent sensitivity, wide dynamic range, full–bodied bass, precise mids and clear highs
- Ultra–thin and anti–wrinkle diaphragm ensures accurate acoustic field orientation
- Folding design for convenient carrying
- Swivel earcup design for 25° right or left swivel fit different head shapes and 180° swivel for one–ear monitoring
- Half–open design combines the accuracy of open design and the pure bass of closed design
- Saucer with air–guide holes, light and flexible PP headhand, soft and PU leather ear pads for comfortable and long time listening

### Application
- Music entertainment

### Specification
- Type: Wired, half–open design
- Transducer Principle: Dynamic
- Wear Type: Head worn
- Frequency Response: 15Hz–25kHz
- Sensitivity: 101dB ± 3dB at 1kHz
- Driver Diameter: Φ40mm
- Max. Input Power: 30mW
- Rated Power: 15mW
- Impedance: 32Ω
- Connector: Φ3.5mm straight plug + Φ6.3mm gold–plated adaptor
- Cable: 1.2m
- Net Weight: 105g


## ML650

### Features
- Closed–back dynamic, Φ40mm driver
- Folding headband and swiveling earcup design for easy of carrying and storing
- Neodymium magnet and special tuning ear pads for excellent sound reproduction
- Punchy bass and clear highs
- Adjustable headband for long time wearing comfort
- Detachable cable design for convenient carrying and replacing

### Application
- IPHONE, IPOD, MP3, CD

### Specification
- Type: Closed design
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 30Ω
- Sensitivity: 106 ± 3dB at 1kHz
- Frequency Response: 10Hz~20kHz
- Max. Input Power: 50mW
- Rated Power: 30mW
- Cable: Φ2mm X 1.2m detachable cable
- Adaptor Plug: Gold–plated stereo Φ3.5mm straight plug

• Walkman Headphone

## ML620

### Features
- Open design dynamic, Φ40mm driver
- Folding headband and swiveling earcup design for ease of carrying and storing
- Neodymium magnet and special tuning ear cushion for excellent sound reproduction
- Clear mids and highs
- Adjustable headband for long time wearing comfort
- Detachable cable design for convenient carrying and replacing

### Application
- IPHONE, IPOD, MP3, CD

### Specification
- Type: Open design
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 30Ω
- Sensitivity: 105dB ±3dB at 1kHz
- Frequency Response: 10Hz~20kHz
- Max. Input Power: 50mW
- Rated Power: 30mW
- Cable: Φ2mm X 1.2m detachable cable
- Adaptor Plug: Gold-plated stereo Φ3.5mm straight plug

• Overhead Headphone

## TS-422

### Features
- Fine and elegant shape
- Punchy bass range and clear highs
- Wide dynamic range provides extraordinary sound quality

### Application
- CD, MP3, long distance teaching

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 80mW
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm


• Overhead Headphone

## TS-433

### Features
- Elegant and beautiful in style
- Punchy bass range and clear highs
- Wide dynamic range provides extraordinary sound quality

### Application
- CD, MP3, long distance teaching

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

## TS-411

### Features
- Fine and elegant shape
- Punchy bass range and clear highs
- Wide dynamic range provides extraordinary sound quality

### Application
- CD, MP3, long distance teaching

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 40Hz–19kHz
- Power Handling Capability: 100mW
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

• Overhead Headphone

## TS-428

### Features
- Adjustable headband
- Distinct and exquisite sound quality
- Balanced stereo effect
- Soft skin ear pads for long time wearing comfort
- Both-side cable design

### Application
- Piano, keyboard, monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ30mm
- Impedance: 32Ω
- Sensitivity: 96dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Cable: Φ2.2mm x 2m, both-side
- Adaptor Plug: Stereo Φ3.5mm

## TS-466

### Features
- Elegant and beautiful in style
- Punchy bass range and clear highs
- Wide dynamic range provides extraordinary sound quality

### Application
- CD, MP3, long distance teaching

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 150mW
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm



• Headset

## TS-422M.V

### Features
- Clear and natural sound quality
- Ergonomic design for best wearing comfort
- Wide dynamic range
- Single cable with volume control

### Application
- Voice repeater, long distance teaching, multimedia computer

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 80mW
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

## TS-433M

### Features
- Clear and natural sound quality
- Ergonomic design for best wearing comfort
- Wide dynamic range
- Single cable with volume control

### Application
- Voice repeater, long distance teaching, multimedia computer

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ40mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

## TS-466M

### Features
- Elegant in style
- Distinct sound quality and low self noise
- Lightweight
- Single cable with volume control

### Application
- CD, MP3, monitoring, long distance teaching, multimedia computer

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ50mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 150mW
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

• Headset

## TS-428M

### Features
- Rich and balanced sound characteristics
- Back electret condenser microphone provide clear sound reproduction
- Balanced stereo effect
- Soft skin ear pads guarantee long time wearing comfort
- Adjustable headband

### Application
- Piano, keyboard, monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ30mm
- Impedance: 32Ω
- Sensitivity: 96dB ± 3dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Cable: Approx. 2m
- Headphone Adaptor: Φ3.5mm+ Φ6.3mm
- Microphone Transducer Principle: Back electret condenser
- Microphone Adaptor: Φ3.5mm
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)

## TS-409M

### Features
- Stylish design
- Clear sound quality and wide dynamic range
- Ergonomic bow design for best wearing comfort
- Easy to "pack and go"

### Application
- Voice repeater, long distance teaching, multimedia computer

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ30mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–18kHz
- Power Handling Capability: 100mW
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Cable: Approx. 3m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm



• Behind–the–neck Headphone

## TS-409

### Features
- Distinct and natural sound quality
- Small size, lightweight
- Ergonomic design for best wearing comfort

### Application
- CD, MP3, recorder

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ30mm
- Impedance: 32Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–18kHz
- Power Handling Capability: 100mW
- Cable: Approx. 1.5m
- Adaptor Plug: Stereo Φ3.5mm + Φ6.3mm

• Clip–on Headphone

## TS-399

### Features
- Stylish and portable design
- Clear and exquisite sound quality

### Application
- CD, MP3, recorder

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ30mm
- Impedance: 32Ω
- Sensitivity: 105dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Cable: Approx. 1.5m + 1m extending cable
- Adaptor Plug: Stereo Φ3.5mm


• Hearing Protection Headphone

## EP-100

### Features
- Rugged and durable
- Adjustable earlaps
- Soft and replaceable ear pads
- Excellent rejection of unwanted noise – suitable for extreme SPL environments

### Application
- Shooting training area, factory, airport, mine

### Specification

| Frequency (Hz) | 50Hz | 100Hz | 200Hz | 500Hz | 1kHz | 2kHz | 5kHz | 10kHz | 20kHz |
|---|---|---|---|---|---|---|---|---|---|
| Average Attenuation (dB) | 12dB | 14dB | 18dB | 32dB | 36dB | 36dB | 37dB | 40dB | 40dB |
| Net Weight | 197g | | | | | | | | |
| Earcap Force | ⩽12N | | | | | | | | |

• Earphone

## TS-2250

### Features
- In-ear design for maximum noise isolation
- Punchy bass, natural mids and clear highs
- Supplied with three pairs of ear pads in different sizes for optimal fit

### Application
- CD, MP3, monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter : Φ9.2mm
- Impedance: 16Ω
- Sensitivity: 100dB ± 3dB (at 1kHz)
- Frequency Response: 20Hz–20kHz
- Cable: Approx. 1.5m
- Adaptor Plug: Stereo Φ3.5mm

## TS-2251

### Features
- In-ear design for maximum noise isolation
- Punchy bass, natural mids and clear highs
- Supplied with three pairs of ear pads in different sizes for optimal fit

### Application
- CD, MP3, monitoring

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ9.2mm
- Impedance: 16Ω
- Sensitivity: 100dB ± 3dB (at 1kHz)
- Frequency Response: 20Hz–20kHz
- Cable: Approx. 1.5m
- Adaptor Plug: Stereo Φ3.5mm

## TS-2240M

### Features
- Elegant and beautiful shape
- Distinct and exquisite sound quality
- Wide dynamic range with punchy bass
- In-line microphone

### Application
- Net bar, PC

### Specification
- Transducer Principle: Dynamic
- Driver Diameter: Φ15mm
- Impedance: 16Ω
- Sensitivity: 102dB
- Frequency Response: 20Hz–20kHz
- Power Handling Capability: 100mW
- Microphone Sensitivity: –45dB ± 3dB (0dB=1V/Pa at 1kHz)
- Cable: Approx. 1.5m
- Adaptor Plug: Stereo Φ3.5mm



# Portable Amplifier ▸

## E160

### Features

- Class D digital amplification technology for high power audio output and clear sound quality
- Innovative AGI sound extension technology enhances the frequency band and dynamic response
- Built–in high capacity rechargeable lithium–ion battery
- Built–in MCU intelligent recharging management system ensures safe and reliable battery operating
- Electronic touching button for easy operation
- AUX audio signal input function for using as a small speaker
- Elegant and durable outlook
- Multiple wearing choices (shoulder hanging, waist wearing) for convenient use

### Application

- Teaching, tour guide, outdoor PA

### Specification

- Frequency Response: 80Hz–12kHz
- Rated Audio Power: 5W
- Max. Output Power: 12W
- Output Impedance: 4Ω
- Operating Voltage: DC 7.4V
- Battery Specification: 7.4V/1000mAh lithium–ion battery
- Power Adaptor: DC 10.6V/450mA
- Recharging time: 4–6 hours
- Playtime: about 8 hours
- Dimension: 90 x 90 x 43mm
- Net weight: 270g

## E126

### Features

- Small size and lightweight MINI amplifier
- Rare earth material speaker features light weight, excellent sound quality and loud output volume
- Digital circuitry technology, 8W output power
- Powered by high capacity rechargeable polymer Li–ion battery
- Built–in MCU intelligent recharging management system for secure battery charging and discharging, fast charging time (4–6hrs) and long play time (more than 15hrs)
- With AUX audio signal input function, as a small speaker
- Compact and elegant design, durable ABS construction
- Choices of waist or shoulder hanging wear style for convenient use

### Application

- Teaching, tour guiding, outdoor activity, promotion

### Specification

- Frequency Response: 90Hz–12KHz
- Rated Output Power: 4W
- Max. Output Power: 8W
- Output Impedance: 4Ω
- Battery Specification: 3.7V/1000mAh lithium–ion battery
- Power Adaptor: DC 5V 600mA
- Recharging Time: 4–6hrs
- Playtime: ⩾15hrs
- Dimension: 92x72x27mm
- Net Weight: 140g






## E5

### Features

- Unique and fashionable design
- CLASS D digital module for low power consumption
- 6W output power
- Built–in high capacity rechargeable lithium–ion battery for upto 20hrs continuous playtime
- Built–in MCU intelligent charging management system for secure battery charging and discharging
- Multiple wearing choices for convenient use

### Application

- Teaching, tour guide, selling, outdoor PA

### Specification

- Frequency Response: 80Hz–12kHz
- Output Power: 6W (PMPO:12W)
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 3.7V/2200mAh lithium–ion battery
- Power Adapter Specification: DC 5V / 750mA
- Recharging Time: 4–6hrs
- Playtime: 20hrs
- Audio Cable: 2.5mmx1.2m(Φ3.5mm nickel–plated double plug)
- Net Weight: 243g
- Product dimension: 100 x 94 x 43mm

## E5M

### Features

- Rare earth material speaker features light weight, excellent sound quality and loud output volume
- Supports multimedia audio file play of U disk and TF card
- Built in high capacity lithium–ion battery
- Class D digital amplification module for low power consumption and high output power up to 8W
- Built–in MCU intelligent recharging management system for secure battery charging and discharge, fast recharging time(only 6 hrs), and long playtime time up to 20hrs
- Unique and fashionable design

### Application

- Teaching, tour guide, selling, outdoor PA etc

### Specification

- Frequency Response: 80Hz–12kHz
- Max. Output Power: 8W
- Rated Output Power: 5W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 1pc 3.7V/2200mAh lithium–ion battery
- Power Adapter Specification: DC 5V 750mA
- Recharging Time: Approx. 6hrs
- Play Time: 20hrs
- TF Card, U disk: Max. 16G
- Media Format: Mp3
- Net Weight: 220g
- Product Dimension: 98x94x43mm

## E6

### Features

- Unique rain and dust proof construction
- Digital amplifier circuitry for minimum battery power consumption
- 6W output power
- All function controlled by MCU for convenient operation
- Volume control features memory of last setting
- Intelligent battery capacity indication on top panel
- Built–in intelligent power management system for stable performance and long playtime
- Mini USB connector assures convenient connection with computer for recharging
- Supplied with high capacity rechargeable lithium–ion battery
- Multiple wearing choices for convenient use

### Application

- Coaching, tour guiding, presentation

### Specification

- Frequency Response: 80Hz–12kHz
- Output Power: 6W (PMPO: 12W)
- Output Impedance: 4Ω
- Operating Voltage: 3.7V/2200mAh lithium–ion battery
- Power Adaptor Specification: DC 5V / 750mA
- Recharging Period: 4–6hrs
- Playtime: 20hrs (depending on the volume and temperature)
- Audio cable: 2.5mmx1.2m (Φ3.5mm nickel–plated double plug)
- Net Weight: 243g
- Product Size: 100 x 94 x 43mm

## E8M

### Features

- Special construction for water and dust proof
- MCU function control, touch switch operation
- Electronic volume control technology, the memory function makes the volume same as last time automatically when it is on
- Music play function supports the multi–media audio files play of USB flash disk and TF card
- MCU intelligent power level inspection for actual battery power condition indication
- Built–in high capacity lithium–ion battery
- Class D digital amplification module for low power consumption and high output power upto 18W
- Built–in MCU intelligent recharging management system for secure recharge and discharge and fast recharging time (only 6hrs), playtime is upto 8 to 12 hours
- Multiple wearing choices for convenient use
- Unique and fashionable design

### Application

- Teaching, tour guide, selling, outdoor PA

### Specification

- Frequency Response: 80Hz–12kHz
- Output Power: 18W
- Output Impedance: 7.4V
- Operating Voltage: 4Ω
- Battery Specification: 2pcs 3.7V/2200mAh lithium–ion battery
- Power Adapter: DC 10.6V 450mA
- Recharing Time: 4–6hrs
- Playtime: 12hrs
- Dimension: 100 × 94 × 43mm
- U disk and TF card: max.16G in MP3 format





## E188

### Features

- Digital circuitry technology, 10W output power
- High–efficiency and strong–magnetism neodymium iron boron speake features light weight, excellent sound quality and loud output volume
- LOW–THD AT Adaptive Technology features low distortion even at hig output power
- Built–in high capacity rechargeable lithium–ion battery
- Built–in MCU intelligent recharging management system for secure recharge and discharge, fast charging time (4–6hrs), and long play time (more than 20hrs)
- With AUX audio signal input function, as a small speaker
- Compact and elegant design, durable ABS construction
- Choices of waist or shoulder hanging wear style for convenient use


### Application

- Teaching, tour guiding, training

### Specification

- Frequency Response :80Hz–12kHz
- Rated Output Power: 5W
- Max. Output Power: 10W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 3.7V/2000mAh lithium–ion battery
- Power Adaptor: DC 5V / 600–750mA
- Recharging Period: 4–6hrs
- Playtime: ⩾20hrs
- Dimension: 86 x 98 x 46mm
- Net Weight: 350g

## E188M

### Features

- Digital circuit technology, 10W output power
- Rare earth material speaker features light weight, excellent sound quality and loud output volume
- Music play function supports multimedia audio file play of USB flash disk and TF card
- LOW–THD AT Adaptive Technology features low distortion even at high output power
- Built–in high capacity rechargeable lithium–ion battery
- Built–in MCU intelligent recharging management system for secure battery charging and discharging, fast charging time (4–6hrs) and long play time (more than 20hrs)
- With AUX audio signal input function, as a small speaker
- Exquisite and durable design
- Choices of waist or shoulder hanging wear style for convenient use


### Application

- Teaching, tour guiding, outdoor activity, selling, morning exercise, entertainment, presentation

### Specification

- Frequency Response: 80Hz–12kHz
- Output Power: 10W
- Rated Output Power: 5W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 3.7V/2000mAh lithium–ion battery
- Power Adaptor: DC5V/600–750mA
- Recharging Period: 4–6hrs
- Playtime: ⩾20hrs
- USB disk and TF card: Max. 16G
- Dimension: 100 x 80.5 x38mm
- Net Weight: 215g

## E180M

### Features

- Digital circuitry technology, 12W output power
- Music play function supports multimedia audio file play of USB flash disk and TF card
- LOW–THD AT Adaptive Technology features low distortion even at high output power
- Built–in high capacity rechargeable lithium–ion battery
- Built–in MCU intelligent recharging management system for secure battery charging and discharging, fast charging time (4–6hrs) and long play time (more than 20hrs)
- With AUX audio signal input function, as a small speaker
- Exquisite and durable design
- Choices of waist or shoulder hanging wear style for convenient use


### Application

- Teaching, tour guiding, outdoor activity, selling, morning exercise, entertainment, presentation

### Specification

- Frequency Response: 80Hz–12kHz
- Output Power: 12W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery specification: 3.7V/2000mAh lithium–ion battery
- Power Adaptor: DC 5V/600–750mA
- Recharging Time: 4–6hrs
- Playtime: ⩾20hrs
- USB disk and TF card: Max. 16G
- Dimension: 86 x 98 x 46mm
- Net Weight: 350g

## E200

### Features

- Digital electroacoustic technology, 15W output power
- Music play function supports multimedia audio file play of USB flash disk and TF card
- Built–in high capacity rechargeable lithium–ion battery features fast recharging time (only 6 hours) and long playtime up to 20 hours
- Choices of waist or shoulder hanging wear style for convenient use
- Exquisite and durable design

### Application

- Teaching, tour guide, selling, outdoor PA

### Specification

- Frequency Response: 80Hz–12kHz
- Max. Output Power: 15W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 1pc 3.7V / 2000mAh lithium–ion battery
- Power Adapter: DC 5V 600–750mA
- Recharging Time: Approx. 4–6hrs
- Playtime: 20hrs
- TF Card/USB disk: Max. 16G
- Media Format: MP3
- Net Weight: 408g
- Product Dimension: 107 x 107 x 52mm





## E9M

### Features

- Music play function supports the multi–media audio files play of USB flash disk and TF card
- Infrared remote controller for easy operation
- High resolution LED digital display screen displays the playing status intuitively
- Digital audio technology features low power consumption and high efficiency,  high output power up to 20W
- Built–in high–capacity li–ion battery features long play time
- Built–in MCU intelligent recharging management system ensures fast recharging time and reliable performance
- Capacitive touch technology for easy operation and reliable use
- Multiple wearing choices for convenient use

### Application

- Entertainment, teaching

### Specification

- Frequency Response: 80Hz–12kHz
- FM Frequency Range: 88MHz–108MHz
- Rated Output Power: 16W
- Max. Output Power: 20W
- Output Impedance: 4Ω
- Operating Voltage: 7.4V
- Battery Specification: 7.4V/2200mAh lithium–ion battery
- Power Adaptor: DC 10.6V 450mA
- Recharging Time: Approx. 6 hours
- Playtime: 6–8 hours
- Product Dimension: 123.8 × 120.2 × 53.8mm
- U Disk and TF Card: Max. 32G
- Media Format: MP3, WMA
- Net Weight: 560g

## E16

### Features

- Stereo dual–drive output with max. output power up to 50W
- Support multimedia audio files play of SD card and USB flash disk
- Built–in FM function to search for TV station automatically
- Support microphone and FM broadcasting content recording
- Music original sound eliminating function for experiencing karaoke entertainment at anytime
- High resolution LCD dynamic display screen supports synchronous lyric display
- Music EQ and microphone reverberation function
- Built–in high capacity li–ion battery for recycle charging
- Infrared remote controller for convenient use

### Application

- Physical exercise, outdoor activity

### Specification

- Frequency Response: 80Hz–12kHz
- Output Type: Stereo
- Rated Power: 2x14W
- Max. Output Power: 2x25W
- Impedance: 4Ω
- Operating Voltage: 14.8V
- Battery Specification: 14.8V/2200mAh lithium–ion battery pack
- Power Adaptor: DC 18V 1.3A
- Recharging Period: approx. 6hrs
- Playtime: 4–6hrs
- Product Dimension: 310x133x93mm
- U disk and SD Card: max. 16G

## E170M

### Features

- Adopts PO² digital power synthetic technology, 8W output power
- Rare earth material speaker features light weight, excellent sound quality and loud output volume
- With music play and single cycle function, supports multimedia audio file play of U disk and TF card
- LOW–THD Adaptive Technology prevents sound distortion under high power output
- Built–in high capacity rechargeable lithium–ion battery, 5 hours fast recharging time and long play time up to 8–12 hours
- MCU intelligent recharging management system for secure recharging and disrecharing
- Durable ABS case, compact and stylish design
- Multiple wearing choices for convenient use

### Application

- Teaching, promotion, tour guide, morning exercise

### Specification

- Frequency Response: 80Hz–12kHz
- Max. Output Power: 8W
- Rated Output Power: 6W
- Speaker Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 18650 lithium –ion battery
- Power Adaptor Specification: DC 5V 600–750mA
- Recharging Time: 4–6hrs
- Playtime: 8–12hrs
- USB disk/TF Card: Max.16G
- Media Format: Mp3
- Product Dimension: 113x41x81mm
- Net Weight: 190g

## E190M

### Features

- PO² digital power synthetic technique, 10W output power
- Rare earth material speaker features light weight, excellent sound quality and loud output volume
- Music play function, supports the multimedia audio files play of USB disk and TF card
- High brightness digital LED display for controlling the working status intuitively
- Recording function controlled by one button, supports microphone and FM broadcasting content recording
- Built–in FM function to search and save the radio stations automatically
- Built–in high capacity lithium–ion battery and MCU intelligent recharging management system for secure recharge/discharge, 5 hours fast recharging time and long play time up to 12 hours
- Unique and fashionable design

### Application

- Teaching, promotion, tour guiding, morning exercise

### Specification

- Frequency Response: 80Hz–12KHz
- Max. Output Power: 10W
- Rated Output Power: 6W
- Output Impedance: 4Ω
- Operating Voltage: 3.7V
- Battery Specification: 1pc 18500 lithium–ion battery
- Power Adaptor: DC 5V 600–750mA
- Recharging Time: Approx. 5hrs
- Playtime: 8–12hrs
- USB/TF Card Disk: Max. 16G
- Media Format: MP3 / WAV / WMA
- Net Weight: 241g
- Product Dimension: 115 × 85 × 37mm





## E17

### Features

- Music play function supports the Mp3 audio file play of USB flash disk
- Support song single cycle
- Automatic FM station searching function, multiple channels can be saved
- VHF wireless system
- Dual channels and supplied with both handheld transmitter and body–pack transmitter
- Long operating range up to 30m or more
- Excellent sound quality and wide frequency response
- 35W output power for operating range of 800 square meters
- Adjustable volume, tone and echo function
- AUX–IN and AUX–OUT sockets for convenient connection with other audio equipment
- Built–in auto–recharge control circuit, optional high capacity rechargeable batteries for open air convenient use

### Application

- Teaching, speech, outdoor activities

### Specification

**Receiver**

- Frequency Range: 220–270MHz (more than 40 optional frequencies)
- Receiving Sensitivity: –80dBm (S/N ⩾30dB)
- Squelch Control: Noise–Lock
- Harmonic Interference Rate: ＞50dB
- False Image Interference Rate: ＞50dB
- Total Harmonic Distortion: ＜1%(1kHz)
- Output Power: 35W max
- S/N Ratio: ＞70dB
- Frequency Response: 100Hz–12kHz
- Speaker Impedance: 4Ω
- Power Requirement: rechargeable battery or external 16V/3A power adaptor
- Handheld Transmitter Operating Range: 30m outdoors
- Bodypack Transmitter Operating Range: 25m outdoors
- Recharging Time: approx 5–7 hrs (variable according to the battery capacity)
- Playtime: 4~5hrs (Li–ion battery)
- Operating Temperature: –20℃~60℃
- Net Weight: 3.25kg (including the battery 0.9kg)
- USB Disk Capacity: 16GB (MAX)
- FM Frequency Band: 76–108MHz

**Transmitter**

- Frequency Steadiness: ±0.005%
- Harmonic Suppression: ⩽–40dB
- Operating Current (tie–clip mic): 90–110mA
- Operating Current (handheld mic): 25–45mA
- Transmit Power: ⩽10mW


## E160W

### Features

- 2.4G digital wireless technology for stable and reliable performance
- Adaptive digital ID mode for automatical frequency matching between transmitter and receiver, multiple classrooms can use the system at the same time without interference
- Transmitter and receiver adopt digital audio processing for clear sound quality and high sensitivity
- Built–in polymer Li–ion rechargeable battery for transmitter
- Supplied with high performance built–in wireless lavalier microphone and wired headworn microphone for convenient use
- Digital circuitry technology, 10W output power
- The amplifier can work as portable power source and charge for lavalier transmitter, mobile phone by USB cable

### Application

- Teaching, training, tour guiding

### Specification

- Carrier Frequency: 2.4G
- Operating Mode: Adaptive digital ID
- Transmit Power: ≤10mW
- Operating Range: 15–20m
- Frequency Response: 80Hz–12kHz
- Rated Output Power: 5W
- Max. Output Power: 12W
- Output Impedance: 4Ω

**Receiver**

- Receiver Battery Spec: 7.4V/1000mAh polymer Li–ion battery
- Power Adaptor: DC 10.6V/450mA
- Receiver Recharging Time: 4–6 hours
- Receiver Play Time: ≥8 hours(voval)
- Product Dimension: 90x90x43mm
- Net Weight: 270g

**Transmitter**

- Sensitivity: –41~–44dB
- Polar Pattern: Cardioid
- Transmitter Battery Specification: 3.7V/350mAh polymer Li–ion battery
- Power Adaptor: DC 5V
- Transmitter Recharging Time: 4–5hours
- Transmitter Play Time: 5–6 hours
- Product Dimension: 67 x 36 x 28mm
- Net Weight: 40g






## E28

### Features

- Multifunctional audio–video speaker with high output power up to 16W
- Dual diaphragm low frequency extension technology features excellent music dynamic performance
- Music play function supports the multimedia audio files play of USB flash disk/TF card with simultaneous lyric display
- 4.3 inch TFT HD resistive touch screen supports full format 720P HD video playback
- Supports TV OUT video output and headphone output
- Supports FM radio reception, automatically station searching and saving
- Built–in bluetooth module enable to connect with the mobilephone for using as a bluetooth speaker
- Provided with an infrared remote control for convenient use
- Long music play time is up to 10hrs and video display time is 4hrs
- Built–in high capacity lithium–ion battery and MCU intelligent charging management system for secure recharge and discharge, fast recharging time is only 6hrs

### Application

- Music entertainment, physical exercise, outdoor activity

### Specification

- Frequency Response: 80Hz–12KHz
- Max. Output Power: 2x8W
- Output Power: 2x5W
- Output Impedance: 4Ω
- Operating Voltage: 7.4V
- Battery Specification: 7.4V/2000mAh lithium–ion battery
- Power Adapter: DC 11V 1000mA
- Recharing Time: 5–7hrs
- Play Time: ≥10hrs
- USB/TF card: Max. 32G
- Audio Format: MP3 / WMA / WAV
- Video Format: MKV / AVI / MOV / MP4 / TS / ASF / FLV / PMP / RMVB / MPG / VOB / WMV
- Net Weight: 650g

• Trolley Active Speaker

## WDA–1000

### Features

- Multi–functional and 100W high output power meet the demand of outdoor use
- Two optional dual channel wireless microphone receiver modules: UHF or VHF
- Supports optional installation of video or audio multi–media player module
- Compatible with audio signal input of AUX, guitar, microphone, etc
- The system features multichannel independent volume control, EQ sound effect, ECHO adjustment for various applications
- FM or AM radio reception function searches and saves the stations automatically
- Supplied with infrared remote control for convenient operation
- Built–in high capacity lead–acid batteries for 4 to 6 hrs playtime when there's no external power source
- Designed with telescopic rod, the speaker can be moved and carried conveniently
- High intensity housing design, the special housing wing structure can protect the operating panel from impact; the reinforced speaker and fixed battery mode gurantee the durability under longtime outdoor use

### Application

- Performance, meeting, promotion, physical exercise, entertainment

### Specification

- Frequency Response: 80Hz–16kHz
- Rated Output Power: 60W
- Max. Output Power: 100W
- Wireless Microphone: 2 transmitters
- Frequency Range: 720–820MHz
- Number of Frequencies: 200
- Comprehensive Noise Ratio: >105dB
- Wireless Microphone Operating Range: 30–50m
- Speaker Impedance: 2Ω
- Operating Voltage: DC12–16V
- Battery Specification: Lead–acid battery 12V/17AH
- Power Adapter Specification: DC 16V 5A
- Recharging Time: Approx. 6hrs
- Operating Time: 4–6hrs
- U Disk and SD Card: Max.16G
- Product Size: 520.5mmX320mmX333.7mm
- Net Weight: 23kg


### Transmitter Specification

- Output Power: High power 10mW; Low power 3mW
- Spurious Suppression: –60dB
- Power Supply: 2pcs AA batteries
- Operating Time: More than 10hours when 10mW
  More than 15hours when 3mW

### FM Stereo Radio

- Frequency Range: 87.5–108.0MHz
- Practical Sensitivity: 8dB u
- Frequency Response: 30Hz–15KHz (3dB)
- Stereo Separation: 3dB (1KHz)
- Mirror Frequency Rejection Ratio: 50dB
- Intermediate Frequency Rejection: 70dB
- S/N Ratio: 60dB

### USB/SD Player

- Frequency Response: 20Hz–20KHz(3dB)
- S/N Ratio: >70dB
- Harmonic Distortion: <0.2% (1KHz)
- Channel Separation: >60dB



• Talk–back System

## DA–237

### Features

- Full duplex voice technology automatically recognizes and process voice signal
- Special anti–side tone processing chip features automatic squelch control and effectively minimize the howling
- Full automatic communication control technology, wall mount unit (external unit) features integrated microphone and speaker, one cable for convenient connection of the wall mount unit and desktop unit
- Excellent circuitry for high output power up to 3W and clear sound quality
- Independent mute control on desktop unit for both external and internal units
- Audio input function input signal like PC voice warning for customer listening
- Line output function for recording of internal/external voice signal
- Cable protection design on desktop unit
- Compact, elegant design

### Application

- Bank, stock–exchange, post office, railway station, cashier desk, ticket office and hospital

### Specification

- Operating Voltage: DC 12V/1A
- Output Power: 3W (max)
- Frequency Response: 100Hz–12kHz
- Destop Unit Dimensions: 18.2cm x 12.0cm x 5.6cm
- Wall Mount Unit Dimensions: 6.1cm x 8.5cm x 2.4cm


• Wireless Monitor System

## WPM–200

### Features

- UHF frequency band (780–805MHz) and PLL frequency synthesized technology for stable working performance
- 6 selectable channels
- Powered by 2pcs AA batteries, low power consumption design for long playtime up to 30 hours
- Multiple sets of receivers can be operated with a single transmitter within the operating range
- Dynamic expansion circuitry for high S/N ratio
- Complex anti–interference circuit for using 4–6sets at the same time without mutual interference
- Receiver LCD displays frequency, channel and battery level

### Application

- Studio recording monitoring, on–stage monitoring

### Specification

**Transmitter**

- Frequency Range: 780–805MHz
- Power Supply: DC 12V/ 300mA
- Transmit Power: ≤10dBm
- Operating Current: 80mA ± 10mA
- Operating Range: 50m

**Receiver**

- Power Supply: DC 3V (2pcs AA battery)
- Operating Current: 50mA ± 20mA
- S/N Ratio: > 50dB
- Sensitivity: S/N 12dB 3uV
- Frequency Response: 30Hz–18 KHz
- Frequency Range: 780–805MHz
- Stereo Separation: > 50dB




• Tour Guide System

## WTG–900

### Features

- 780–850MHz digital frequency–hopping spread spectrum (FHSS) design automatically filter & minimize the wireless interference
- 10 sets of systems can be used at the same time without mutual interference
- More than 100m long operating range, the maximum in open area can be 300m
- Supports wireless talkback function, switch the mode of tour guide or talkback according to your using requirements
- LCD–display indicates the battery level, receiving signal strength as well as the current channel to control the working state anytime
- Adopts intelligent AGC audio signal processing technology for high sound capture capability and high quality sound reproduction
- Powered by high capacity lithium–ion battery, playtime is more than 12hrs
- Light and durable aluminum alloy construction
- Supplied with special charger and portable aluminum case for convenient outdoor using

### Application

- Travelling, meeting, museum visiting, coaching, education, wireless synchronous translation

### Specification

- Frequency Range: 50Hz–12KHz
- Carrier Frequency: 780–850MHz
- Number of Channels: 100, automatic frequency–hopping mode
- Operating Range: ≥100m(the maximum in open area can be 300m)
- Transmit Power: ≤10dBm
- Receiving Sensitivity: –120dBm
- S/N Ratio: ≥60dB
- Playtime: Approx. 12hrs
- Recharging Period: Approx. 4hrs, charge current 280mA
- Battery Specification: 3.7V/950mAh polymer lithium–ion battery


Aluminum carrying case

Charger

Single–side clip–on headset

Headworn microphone

## WTG-500

### Features

- UHF frequency band with 6 selectable channels
- PLL frequency synthesis technique for stable signal transmission
- Complex interference-free circuit enables 4 channel groups to use simultaneously without mutual interference
- One transmitter can be operated with multiple receivers within the operating range
- Long operating range up to 100m
- Low power consumption design, receiver can work for more than 24hrs by using 2pcs alkaline batteries
- Dynamic expanding circuit for high S/N ratio
- Both transmitter and receiver use LCD-display to indicate frequency, channel, battery level status

### Application

- Wireless tour guiding, simultaneous translation, audio-visual education

### Specification

- Carrier Frequency: 780-789MHZ
- Frequency Response: 30Hz-15KHz
- Number of Channels: 6
- Transmit Power: ≤10dBm
- Receiving Sensitivity: S/N: 12dB 3uV
- S/N Ratio: ≥50dB
- Operating Range: >100m
- Transmitter and Receiver Power Supply: 2x1.5 AA Alkaline battery


## UHF-938

### Features

- UHF radio frequency for interference-free reception
- Frequency synthesized PLL circuitry for stable signal transmission
- Two jacks for the microphone and line ensuring variable utilization
- Automatic mute control for silent standby
- Individual volume control on each receiver

### Application

- Tour guiding, field interpretation

### Specification

- Frequency Control: PLL synthesized function
- Carrier Frequency: 433MHz
- Modulation Mode: FM
- Frequency Response: 60Hz-15kHz
- S/N Ratio: >45dB (at 1kHz)
- Total Harmonic Distortion: <1%
- Transmit Power: ≤10mW
- Input Level: Virtual Value 500mV
- Transmitter Power Supply: 2 x 1.5V AA Alkaline Battery
- Transmitter Battery Playtime: Approx. 12hrs
- Receiver Power Supply: 2 x 1.5V AA Battery
- Receiver Battery Playtime: Approx. 25hrs
- Operating Range: Approx. 50m





## TS-808

### Features

- 8-channel intelligent mixer with high S/N ratio and clear, natural sound quality
- Advanced microprocessor controlled circuitry
- Capable of linking systems containing several mixers
- Optional control for principal mode, FIFO mode, free mode
- Additional line input for backgroud music
- Balanced microphone output for connecting with mixer, amplifier, etc.
- Additional line output for recording system
- Powered by 48V phantom power supply, separate power switches for channel 1-4 and channel 5-8
- High output level for synchronous tracking of the camera and indicator
- Can be used as common mixer while switching to the manual mode
- Headphone monitoring function available
- Optional 10dB attenuation on ecah channel for different applications

### Application

- Conference system

### Specification

- Max. Gain: >73dB
- Frequency Response: 30Hz-20kHz
- Equivalent Input Noise: -124dBV
- Mic Input Attenuation: 10dB
- Power Supply: +48VDC
- Control Voltage Output: +48V DC
- Power Requirement: 15V/800mA
- Input Impedance: 4000Ω ( Balanced)
- Output Impedance: 300Ω ( Balanced)

## TS-108

### Features

- Supports 10 balanced or unbalanced microphone signal input
- Independent microphone output volume control
- Stereo line input for connecting the background sound source device
- 48V phantom power supply meets the power supply demand of condenser microphone
- With microphone ECHO effect adjustment function
- Built-in digital frequency shift circuit features strong anti-howling ability
- 2 microphone EQ adjustment for better sound effect of different microphone

### Application

- Meeting

### Specification

- Channel Input Impedance: 8KΩ
- Output Impedance: 600Ω
- Max. Gain: 30dB
- Max.Input Level: MIC 50mV (THD≦1%)
- Frequency Response: 50HZ-20KHZ
- Self Noise: -80dBV
- Phantom Power: 48V
- Power Supply Voltage: AC15V
- Power Consumption: <7.5W
- Dimension: 485 × 206.5 × 61mm

## XR–208

### Features

- Wide dynamic range, low self noise and low distortion
- Use famous ALPS potentiometer for low noise and high stability
- Built–in +60dB low noise microphone preamplifier and 48V phantom power supply
- 3–band equalizers for high, mid and low frequencies makes pleasant tone
- Can be connected to an external effects device
- Rugged and durable metal housing

### Application

- Audio making, conference, on–stage performance

### Specification


**Stereo Inputs**
- Impedance: appro x .20kΩ
- Max. Input Level: +20dBu

**EQ Stereo Channels**
- LOW: 80Hz/ ± 15dB
- MID: 2.5KHz/ ± 15dB
- HIGH: 12KHz/ ± 15dB

**Aux Sends**
- Impedance: approx.110Ω
- Max. Output Level: +20dBu
- S/N Ratio: 110dB
- Total Harmonic Distortion: 0.01%

**Stereo Aux Returns**
- Impedance: approx.20kΩ balanced / 10kΩ unbalanced
- Max. Input Level: +20dBu

**Main Output**
- Impedance: approx.110Ω unbalanced
- Max. Output Level: +20dBu

**Mono Inputs**

**Microphone Inputs**

**XLR Connector, Electronically Balanced, Discrete Input Circuit**
- Gain Range: +10 to +50dB
- Max.Input Level: +10dBu
- Impedance: approx.2.2kΩ balanced
- S/N Ratio: 110dB
- Total Harmonic Distortion: 0.01%

**Line Input**
- Impedance: approx. 20kΩ balanced/10kΩ unbalanced
- Gain Range: +10 to +30dB
- Max. Input Level: +20dBu @ 0dB gain
- Frequency Response: 20Hz–20kHz+0dB/–3dB
- S/N Ratio: 110dB
- Total Harmonic Distortion: 0.01%





## XR–210FX

### Features

- Advanced circuit design and high quality electronic components features low noise, low distortion, wide dynamic range and strong anti–interference ability
- 3–band EQ for high, mid and low frequency adjustment effectively improve the tone
- With signal overload (clip) indication, 80Hz low cut function
- Built–in +50dB low noise microphone preamplifier and 48V phantom power supply suits different kinds of microphone
- Stereo input channel with sensitivity adjustable (+4db, –10db) switch can match with different kinds of input sound source
- 60mm sliding potentiometer controls the main output volume efficiently and expediently
- With RCA CD input, recording output terminal, MAIN output and CTRL ROOM, PHONES monitoring output
- Built–in DSP effect with 100 kinds of effect choices meet various occasions and user requirements
- Built–in German USB chip sound card for free driver and convenient connection with computer (only need one USB cable)

### Application

- Internet Karaoke, Computer Recording, Audio Editing, Conference Room

### Specification

**Microphone Inputs (XLR balanced input)**
- Impedance: 1.5KΩ balanced
- Gain Range: +10dB to +60dB
- Max. Input Level: +12dBu @ +10dB gain
- S/N Ratio: 110dB (A weighted)
- Total Harmonic Distortion: ≤0.005%

**Stereo Inputs**
- Impedance: 10kΩ unbalanced
- Gain Range: –10dB to +15dB
- Max. Input Level: +20dBu @ +10dB gain
- S/N Ratio: 110dB (A weighted)
- Total Harmonic Distortion: ≤0.005%

**EQ Stereo Channels**
- LOW: 80Hz/ ± 15dB
- MID: 2.5KHz/ ± 15dB
- HIGH: 12KHz/ ± 15dB

**Main Output**
- Impedance: 120Ω unbalanced
- Max. Output Level: +22dBu
- Frequency Response: 20Hz to 20KHz ( ± 1dB)

**Crosstalk Attenuation**
- Main output sliding potentiometer off: 85dB

**RCA Output Terminal**
- Impedance: 1kΩ unbalanced

**DSP Effect**
- DSP Resolution Ratio: 24bit
- A/D and D/A Conversion: 24bit sample rate 192KHz

**USB Sound Card Sample Rate**
- 24 bit 48KHz sampling

**Compatible System**
- Window 2000/XP、Win 7

## MX–620

### Features

- A new generation of network karaoke console integrates the functions of mixer console, sonud card, effector and amplifiers
- Operated with intuitive controlling panel for convenient debugging
- Built–in imported sound card chip features easy plug and play without drivers
- Built–in DSP effector provides 100 optional effects
- Microphone with 3–band EQ adjustment for changing the frequency response according to different sound ray
- Phantom power supply function can match the condenser recording microphone directly
- Background music automatic fade out / in function meets network host and DJ demand
- Can be connected with different kinds of microphone, such as dynamic microphone, condenser microphone and headset
- Exquisite and fashionable design

### Application

- Network karaoke, network host, computer recording, music monitoring, home entertainment

### Specification

- Compatible System: Window 98/2000/XP, WIN7, Vista
- Frequency Response: 20Hz–20kHz
- S/N: 110dB (A)
- Input Impedance: 1.5KΩ balanced
- Max. Gain: 50dB
- THD: ≤0.005%
- 3–band EQ: HIGH:12kHz ± 15dB  MID: 2.5kHz ± 12.5dB  LOW: 80Hz ± 15dB
- USB Sample Rate: 24bit 48kHz sampling
- Headphone Driving Powe: ≤1W
- Rated Power: ≤2.25W
- Power Supply: USB 5V / 500mA


• Guitar Wireless System

## WGV–601

### Features

- Professional transmission and reception
- Effective operating distance up to 60 meters
- Pure quartz circuit for stable frequency and interference–free reception
- Circuit controlled switching noise elimination
- Adjustable input gain
- LED power indicator for working status and low battery warning

### Application

- Guitar amplification

### Specification

- Carrier Frequency: 220MHz–270MHz
- Modulation Mode: FM
- Frequency Response: 40Hz–18kHz
- Frequency Steadiness: ± 0.005%
- Transmit Power: ≤10mW
- Max Modulation Degree: ± 20kHz
- Dynamic Range: > 105dB
- Resonance Distortion: < 0.5%
- S/N Ratio: > 80dB


Audio Output Level: 0–700mV
Receiver Power Supply: DC 12V/300mA
Transmitter Power Supply: 2 x 5V AA Battery
Transmitter Playtime: Approx. 10hrs
Operating Range: 60m Approx. 60m





## WDA–700

### Features

- UHF 790MHz–805.750MHz and 806MHz–821.750MHz frequency bands, 64 frequencies per band, totally 128 selectable frequencies
- Adopts patent anti–interference technology, the transmitter can be used free from interference in any classroom which has installed the WDA700 wireless speaker
- The transmit frequency is automatically and synchronously set by the receiver (main speaker) via infrared data transmission
- High quality wooden speaker housing and advanced audio circuitry design features natural and distortion–free sound
- Stereo left and right speakers, maximum output power is up to 30W
- AUX IN socket for convenient connection with signal from campus broadcasting or DVD, etc
- LINE OUT function meets the demands of multimedia teaching
- The transmitter is supplied with high capacity rechargeable lithium ion batteries; the continuous playtime is up to 12 hrs
- Elegant and durable metal alloy housing for transmitter
- Choices of installation: mounting with tripod, hanging on wall, or putting on the table directly

### Application

- Multimedia teaching, etc

### Specification

- Receiver Sensitivity: –80dBm SN>25dB
- Noise Lock: –91dBm ± 1dBm
- Frequency Range: 790.000MHz – 821.750MHz
- Frequency Band: two bands
  (790MHz–805.750MHz, 806MHz–821.750MHz)
- Frequency Response: 80Hz–16kHz
- Speaker System: two speakers (stereo)
- Max. Output Power: 30W x 2
- Output Impedance: 4Ω
- Power Adaptor: DC 16V/5A
- Transmit Power: < 10mW
- Transmit Current Consumption: 40–50mA
- Transmit Recharging Current: 350mA
- Distance of Infrared Data Transmission: 6–8m (in straight)
- Audio Modulation: 7–8kHz (Input 15mV)
- Pilot Frequency Modulation: 8–9kHz (Max.)
- Wireless Operating Range: 20–30m (indoors)
- Recharging Period of Transmitter: 3–5 hrs
- Playtime of Transmitter: >12hrs
- Low Power Indication of Transmitter: 3.2V ± 1V


## MA–1C

### Features

- Rugged and noble alu housing design
- Adjustable reverberation effect via REVERB knob
- Convenient 0dB–40dB stepless gain adjustment via DRY knob
- Innovative and flexible wet/dry adjustment via DRY and REVERB knobs
- Switchable, high precision 48V phantom power supply for versatile use, the sound effect amplifier can also work as phantom power supply only
- Professional audio chip and excellent circuitry feature low noise and low distortion
- Seven LEDs at front panel indicate the signal intensity and clipping
- Easy plug and play connection with computers
- Supplied with balanced and shielded audio output cable


### Application

- Recording, chat room and broadcasting

### Specification

- Microphone Compatibility: Dynamic/Condenser
- Phantom Power Supply: DC48V
- Gain Range: 0–40dB stepless adjustment
- Reverb Range: 0–25dB stepless adjustment
- S/N Ratio: ⩾100dB (GAIN=10)
- Frequency Response: 20Hz–50kHz ± 0.2dB
- Total Harmonic Distortion: 0.002% (GAIN=10)
- Signal Level Indication: by seven LEDs
- Reverb Mode: 3D sound effect reverberation
- Input Power Supply: AC15V/500mA
- Output Power: DC48V
- Power Consumption: ⩽7W
- Input Connector: Standard XLR, balanced input
- Output Connector: Standard XLR, balanced output
- Dimension: 130 x 98 x 41.8mm (Length x width x height)
- Net Weight: 900g

## MA–2D

### Features

- Built–in premium 3D reverberation chip achieves hardware reverberation, 24–Bit professional AD/DA switching chip solves the time delay problem of traditional software reverberation which enhance the monitor quality. Adding the 3D reverb effect by adjusting the 0–25dB stepless reverb gain knob, which makes you feel like singing on stage.
- Double channel stereo input for connecting with 2 microphones, special desinged for chorus via PC
- Innovative and flexible wet/dry adjustment via DRY and REVERB knobs for best recording sound effect
- USB DC5V power mode expand the applications like karaoke outdoors which do not need power adapter


### Application

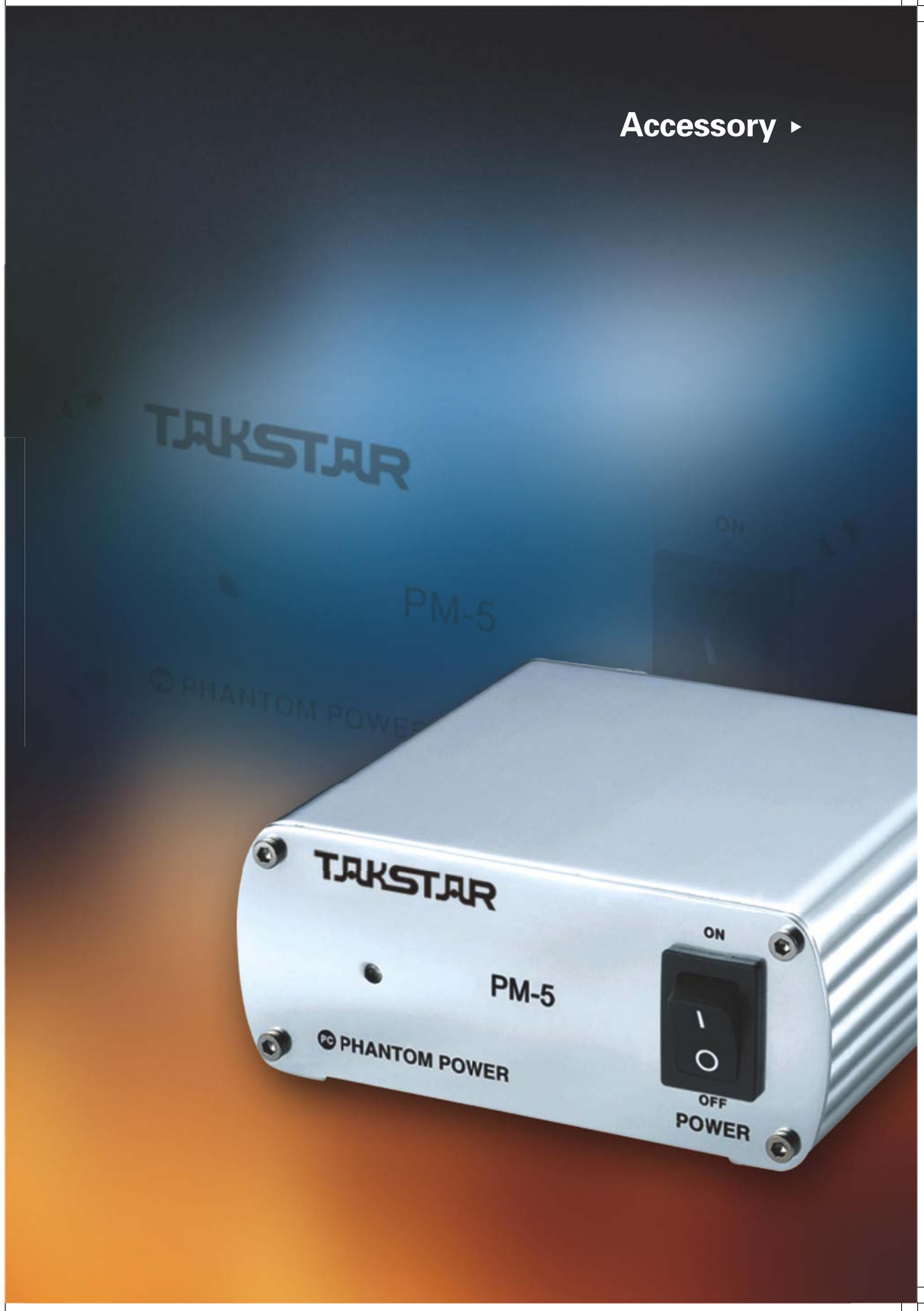
- Recording, chat room and broadcasting

### Specification

- Compatible Microphone: Dynamic, condenser mic with battery power mode design
- Range of Microphone Gain: 0–30dB
- Range of Reverberation Gain: 0–25dB
- Reverberation Mode: Music hall 3D sound reverberation
- S/N Ratio: ⩾100dB (GAIN=10)
- Frequency Response: 20Hz–50kHz ± 0.2dB
- Distortion: ⩽0.1% (dry)
- Input Power: USB DC +5V
- Power Consumption: ⩽1W
- Input Adaptor: Φ6.3mm plug
- Output Adaptor: Φ3.5mm plug
- Size: 130 x 98x41.8mm (L x Wx H)
- Weight: 305g







• Microphone Base

## MS–100

MS–100 is metal base for supporting gooseneck microphone with XLRM connector. It features push on/off mute switch

## MS–200

MS–200 is metal base for supporting gooseneck microphone with XLRM connector. It features push on/off mute switch

## MS–300

MS–300 is metal base for supporting gooseneck microphone with XLRM connector. It features push on/off mute switch

Optional purchasing microphone

## MS–400

### Features

- Capsense touching switch design eliminates the mechanical noise of traditional switch
- Low frequency attenuation design for reducing ambient low frequency noise
- On/off LED indicator
- RFI shielding technology features excellent anti–interference capability such as mobile phone signal
- Optional gooseneck microphones with different length(GN–25\GN–33\GN–45\GN–60)
- Gooseneck microphone and base is connected via reliable aero connector

### Application

- Conference, broadcasting

### Special requirements

- Should be connected with GN–25/GN–33/GN–45/GN–60 gooseneck microphone

### Specification

- Low Frequency Attenuation: 60Hz~–200Hz 10dB ± 2dB
- Output Impedence: 100Ω ± 20%
- Power Requirement: 12–52V Phantom Power



• Microphone Shock Mount

## SH–100

SH–100 is an elastic suspension shock mount for side–address microphones especially those of large size; it features excellent mechanical noise reduction

## SH–200

SH–200 is an elastic suspension shock mount for side–address microphones of both medium and small size

## SH–300

SH–300 is an elastic suspension shock mount for side–address microphones especially those of large size; it features excellent stand noise reduction

## SH–400

SH–400 is an elastic suspension shock mount for cylindrical bodied microphones

## SH–500

SH–500 is an elastic suspension shock mount for side–address microphones especially those of large size; it features excellent mechanical noise reduction

• Microphone Swivel Mount

## H–200

H–200 is a metal swivel mount for side–address microphones

## MH–9

Microphone holder for 2pcs, use aluminum alloy metal material with anode oxydation surface finish for professional outlook. Supplied with standard fixing connecting part for different types of microphone

## • Microphone Clamp

### MH-4

MH-4 is a clamp suitable for holding Takstar wired handheld dynamic microphones

### MH-5

Made of highly durable, elastic nylon material Guarantees secure fixation, Φ33-40mm, suitable for all wireless handheld mic and some wired hand held mic

### MH-6

Made of highly durable material and guarantees secure fixation, Φ25-30mm, suitable for wired microphones

### CH-58

CH-58 is a clamp for holding most cylindrical bodied microphones including Takstar instrument condenser microphones

### ST-5

ST-5 is a desktop microphone stand specially degigned for supporting all wireless handheld microphones and some wired handheld microphones. It features durable MH-5 microphone clamp and a rugged metal base

### MH-7

Rubber microphone mount, Φ21-26mm and adjustable fixing range

### MH-8

Adjustable drum microphone mount

### DH-88

DH-88 is a microphone mount especially suitable for drum recording and reinforcement applications, featuring vibration noise absorption

## • Microphone Stand

### ST-6

Application: Recording, broadcasting
Specification
Cable: Φ6mm x 4m balanced and shielded audio output cable (XLR-XLR)
Material of Tripod: Metal
Net weight: 1.6kg
Bearing Weight: 1000g≥1kg

### ST-3

Can be fixed on flat surface
Adjustable height and angle for flexible positioning
Easy installation
Balacned and shielded audio output cable with XLR-XLR connector



## • Microphone Tripod

### ST-1000

ST-1000 is a heavy-duty metal tripod designed for stage and recording applications

### ST-101

ST-101 is a metal folding tripod for microphones

### ST-102

ST-102 is a plastic folding tripod for microphones

### ST-105

ST-105 is a metal folding tripod for microphones

## • Microphone Pop Screen

### PS-1

PS-1 is a windscreen used for reducing wind noise during close vocal reproduction

### PS-2

PS-2 is a windscreen used for reducing wind noise during close vocal reproduction

## C6–1

Balanced and shielded audio output cable
Dimensions: Φ6mm x 6m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: Φ6.35mm spring gold–plated plug–XLR–F

## C6–2

Balanced and shielded audio output cable
Dimensions: Φ6mm x 6m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: XLR – XLR

## C6–3

Balanced and shielded audio output cable
Dimensions: Φ6mm x 6m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: Φ6.35mm spring gold–plated plug–XLR–F

## C3–2

Balanced and shielded audio output cable
Dimensions: Φ6mm x 3m
Exterior conductor: Φ0.12mm x 62 copper wire
Inner conductor: Φ0.12mm x 29 x 2 copper wire
Connector: XLR– XLR

## C3–3

Balanced and shielded audio output cable
Dimensions: Φ3mm x 3m
Exterior conductor: Φ0.12mm x 44 copper wire
Inner conductor: Φ0.12mm x 29 x 2 copper wire
Connector: Φ3.5mm plug– XLR–F

## C2–1

Y type cable, Φ2.2mm diameter
Cable Length: 135mm(includes all connectors)
Connector: 4–pole gold–plated 3.5mm male plug––two 3.5mm stereo female plug(MIC/Headphone)





## C10–1

Balanced and shielded audio output cable
Dimensions: Φ6mm x 10m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: Φ6.35mm spring gold–plated plug – XLR–F

## C10–2

Balanced and shielded audio output cable
Dimensions: Φ6mm x 10m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: XLR–XLR

## C10–3

Balanced and shielded audio output cable
Dimensions: Φ6mm x 10m
Exterior conductor: Φ0.12mm x 64 copper wire
Inner conductor: Φ0.12mm x 28 x 2 copper wire
Connector: Φ6.35mm spring gold–plated plug – XLR–F

## C3

Audio output cable (single core)
Dimensions: Φ5mm x 3m
Exterior conductor: Φ0.12mm x 32 copper wire
Inner conductor: Φ0.12mm x 16 copper wire
Connector: Φ6.35mm nickel–plated plug–XLR–F

## C4

Audio output cable (single core)
Dimensions: Φ5mm x 4m
Exterior conductor: Φ0.12mm x 32 copper wire
Inner conductor: Φ0.12mm x 16 copper wire
Connector: Φ6.35mm nickel–plated plug–XLR–F

## C5

Audio output cable (single core)
Dimensions: Φ6mm x 5m
Exterior conductor: Φ0.12mm x 32 copper wire
Inner conductor: Φ0.12mm x 16 copper wire
Connector: Φ6.35mm nickel–plated plug – XLR–F

## • Microphone Capsule

### CTS–1

CTS–1 is a single gold–plated diaphragm capsule

### CTS–2

CTS–2 is a dual gold–plated diaphragms capsule

### CTS–3

CTS–3 is a single gold–plated diaphragm capsule

### CTS–4

CTS–4 is a dual gold–plated diaphragms capsule

## • Microphone Windscreen

### W–10

W–10 is a windscreen designed for side–address microphones of large size

### W–20

W–20 is a windscreen designed for gooseneck condenser microphones

### W–30

W–30 is a windscreen designed for handworn microphones

### W–40

W–40 is a windscreen designed for handheld microphones

### W–50

W–50 is a windscreen designed for PCM condenser microphone series

### W–568

W–568 is a windscreen designed for shotgun microphones



## • Power Supply

### PM–5

#### Features

- Stable voltage double rectifying circuit for eliminating interference of AC signal effectively
- Two balanced power inputs/outputs assure stable voltage and effective common mode interference rejection
- Noiseless On/Off switch
- External power adaptor avoids electromagnetic interference
- Built–in lowpass filter eliminates unwanted noise from external audio equipment

#### Application

- 48V phantom power supply for a singal condenser microphone


### PS–168

PS–168 is both a battery power supply and a Φ3.5mm to Φ6.3mm plug adaptor; it is suitable for lavalier and headworn condenser microphones requiring 1.5V power source

### TPM–1

#### Features

- Stable multi–voltage rectified filtering circuit effectively eliminates AC signal interference
- Two balanced power inputs/outputs assure stable voltage and effective common mode interference rejection
- Noiseless 0n/Off switch
- External power adaptor avoids electromagnetic interference
- Built–in low pass filter eliminates unwanted noise from external audio equipment

#### Application

- Recording, chat room and broadcasting

#### Specification

- Phantom Power Supply: +48V
- Input Power: AC 18V 300mA
- Output Voltage: DC 48V
- Power Consumption: ≤5W
- Noise: ≤1.8uV
- Input Connector: Standard Cannon XLR, balanced input
- Output Connector: Standard Cannon XLR, balanced output
- Dimension: 90.3 × 98 × 41.8mm（L × W × H）
- Net Weight: 430g

• Note